(19) 대한민국특허청(KR)
(12) 등록특허공보(B1)

(45) 공고일자 2019년05월14일
(11) 등록번호 10-1977846
(24) 등록일자 2019년05월07일

(51) 국제특허분류(Int. Cl.)
C07K 7/08 (2006.01) *A61K 38/02* (2006.01)
C07K 14/00 (2006.01) *C07K 14/47* (2006.01)
(52) CPC특허분류
C07K 7/08 (2013.01)
A61K 38/02 (2013.01)
(21) 출원번호 10-2017-7030751(분할)
(22) 출원일자(국제) 2009년12월21일
심사청구일자 2017년11월23일
(85) 번역문제출일자 2017년10월25일
(65) 공개번호 10-2017-0121334
(43) 공개일자 2017년11월01일
(62) 원출원 특허 10-2011-7016656
원출원일자(국제) 2009년12월21일
심사청구일자 2014년12월19일
(86) 국제출원번호 PCT/US2009/069060
(87) 국제공개번호 WO 2010/071894
국제공개일자 2010년06월24일
(30) 우선권주장
61/139,272 2008년12월19일 미국(US)
(56) 선행기술조사문헌
JP2008512992 A
US07015194 B2*
WO2005034844 A2
WO2002038744 A2
*는 심사관에 의하여 인용된 문헌

(73) 특허권자
박스알타 인코퍼레이티드
미국, 일리노이즈 60015, 배녹번, 1200 레이크사이드 드라이브
박스앨타 게엠베하
스위스 6300 추크 제흐러벡 4
(72) 발명자
도칼 미하엘
오스트리아 아-1150 비엔나 마리아힐페르스트라쎄 173-175/2/54
에흐를리히 하르트무트
오스트리아 아-1180 비엔나 독토르 하인리히-마이어-스트라쎄 20/1
(뒷면에 계속)
(74) 대리인
양영준

전체 청구항 수 : 총 38 항 심사관 : 김정아

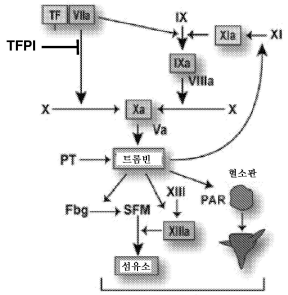
(54) 발명의 명칭 **TFPI 억제제 및 사용 방법**

(57) 요 약

본 발명에서는 조직 인자 경로 억제제 (TFPI)에 결합하는 펩티드, 예를 들어 TFPI-억제 펩티드, 및 그의 조성물을 제공한다. 펩티드는 TFPI를 억제하고/하거나, 응고 인자-결여 대상체에서 트롬빈 형성을 향상시키고/시키거나, 대상체에서 혈병 (blood clot) 형성을 증가시키고/시키거나, 대상체에서 혈액 응고 질환을 치료하기 위해 사

(뒷면에 계속)

대 표 도 - 도1



용될 수 있다.

(52) CPC특허분류
C07K 14/001 (2013.01)
C07K 14/4703 (2013.01)

(72) 발명자
샤이플링거 프리드리히
오스트리아 아-1090 비엔나 미헬보이에른가쎄 4/17
라이머 울프
독일 데-10437 베를린 둔케르스트라베 25
라이네케 울리히
독일 데-14059 베를린 단켈만스트라쎄 53
폴라코브스키 토마스
독일 데-10437 베를린 둔케르스트라쎄 26아
슈나이더 에베르하르트
독일 데-38321 덴크테 암 죄흘베르크 4

명 세 서

청구범위

청구항 1

Ac-FYYKWH[CGMRDMKGTMSC]AWVKF-NH2(서열 1040)과 적어도 80% 동일한 아미노산 서열을 포함하고,

하기 화학식 V의 구조를 가지는 것인, TFPI에 결합하는 펩티드.

X2001-X2002-X2003-X2004-X2005-X2006-[X2007-X2008-X2009-X2010-X2011-X2012-X2013-X2014-X2015-X2016-X2017-X2018]-X2019-X2020-X2021-X2022-X2023 (V) (서열 3118)

상기 식에서,

X2001은 존재하거나 부재하고, 존재할 때 X2001은 A, D, E, F, G, H, I, K, L, P, R, S, T, V 및 W로 이루어진 군 중에서 선택되는 아미노산이고;

X2002는 존재하거나 부재하고, 존재할 때 X2002는 A, D, E, F, G, H, I, K, L, M, P, R, S, T, V 및 W로 이루어진 군 중에서 선택되는 아미노산이고,

X2003은 A, F, I, K, L, R, S, T, V, W 및 Y로 이루어진 군 중에서 선택되는 아미노산이고;

X2004는 A, D, E, F, G, I, K, L, R, S, T, V 및 W로 이루어진 군 중에서 선택되는 아미노산이고;

X2005는 W이고;

X2006은 F, H, I, K, L, R, V 및 W로 이루어진 군 중에서 선택되는 아미노산이고;

X2007은 C, Hcy, Dap 및 K로 이루어진 군 중에서 선택되는 아미노산이고;

X2008은 A, G, R, S 및 T로 이루어진 군 중에서 선택되는 아미노산이고;

X2009는 a, A, I, K, L, M, m, Nle, p, R, Sem 및 V로 이루어진 군 중에서 선택되는 아미노산이고;

X2010은 A, G, I, K, L, P, R, S, T 및 V로 이루어진 군 중에서 선택되는 아미노산이고;

X2011은 D, E, G, S 및 T로 이루어진 군 중에서 선택되는 아미노산이고;

X2012는 A, a, D, d, E, e, F, f, G, I, K, k, L, l, M, m, Nle, nle, P, p, R, r, S, s, Sem, T, t, V, v, W 및 w로 이루어진 군 중에서 선택되는 아미노산이고;

X2013은 A, D, d, E, e, F, G, I, K, L, R, S, s, T, V 및 W로 이루어진 군 중에서 선택되는 아미노산이고;

X2014는 A, D, E, F, G, I, K, L, M, R, S, T, V 및 W로 이루어진 군 중에서 선택되는 아미노산이고;

X2015는 A, D, E, F, G, I, K, L, M, Nle, R, S, T, V 및 W로 이루어진 군 중에서 선택되는 아미노산이고;

X2016은 A, D, E, F, I, K, L, M, Nle, R, S, Sem, T, V, W 및 Y로 이루어진 군 중에서 선택되는 아미노산이고;

X2017은 A, D, E, F, G, I, K, L, R, S, T, V, W 및 Y로 이루어진 군 중에서 선택되는 아미노산이고;

X2018은 C 및 D로 이루어진 군 중에서 선택되는 아미노산이고;

X2019는 A, F, I, L, S, T, V 및 W로 이루어진 군 중에서 선택되는 아미노산이고;

X2020은 F 및 W로 이루어진 군 중에서 선택되는 아미노산이고;

X2021은 I, L 및 V로 이루어진 군 중에서 선택되는 아미노산이고;

X2022는 A, D, E, F, G, I, K, L, P, R, S, T, V, 및 W로 이루어진 군 중에서 선택되는 아미노산이고;

X2023은 존재하거나 부재하고, 존재할 때 X2023은 A, D, E, F, G, I, K, L, R, S, T, V, W 및 Y로 이루어진 군 중에서 선택되는 아미노산이고;

펩티드는 X2007과 X2018 사이의 연결에 의해 생성된 고리 구조체를 포함한다.

청구항 2

제1항에 있어서,

X2001은 존재하거나 부재하고, 존재할 때 X2001은 A, D, F, G, H, K, L, P 및 S로 이루어진 군 중에서 선택되는 아미노산이고;

X2002는 존재하거나 부재하고, 존재할 때 X2002는 A, D, F, G, H, K, L, M, P, R 및 S로 이루어진 군 중에서 선택되는 아미노산이고;

X2003은 A, F, K, L, S 및 Y로 이루어진 군 중에서 선택되는 아미노산이고;

X2004는 A, D, F, G, K, L 및 S로 이루어진 군 중에서 선택되는 아미노산이고;

X2005는 W이고;

X2006은 F, H, K 및 L로 이루어진 군 중에서 선택되는 아미노산이고;

X2007은 C 및 HcY로 이루어진 군 중에서 선택되는 아미노산이고;

X2008은 A, G 및 S로 이루어진 군 중에서 선택되는 아미노산이고;

X2009는 a, A, K, L, V, M, m, Nle, p, 및 Sem으로 이루어진 군 중에서 선택되는 아미노산이고;

X2010은 A, G, K, L, P, R 및 S로 이루어진 군 중에서 선택되는 아미노산이고;

X2011은 D, G 및 S로 이루어진 군 중에서 선택되는 아미노산이고;

X2012는 A, a, D, d, F, f, G, K, k, L, l, M, m, Nle, P, S, Sem 및 s로 이루어진 군 중에서 선택되는 아미노산이고;

X2013은 A, D, d, F, G, K, L, S 및 s로 이루어진 군 중에서 선택되는 아미노산이고;

X2014는 D, F, G, K, L 및 S로 이루어진 군 중에서 선택되는 아미노산이고;

X2015는 A, D, F, G, I, K, L, M, Nle, S 및 T로 이루어진 군 중에서 선택되는 아미노산이고;

X2016은 D, F, K, L, M, Nle, S, Sem 및 Y로 이루어진 군 중에서 선택되는 아미노산이고;

X2017은 A, D, F, G, K, L, S, T 및 Y로 이루어진 군 중에서 선택되는 아미노산이고;

X2018은 C이고;

X2019는 A, F, L, S 및 V로 이루어진 군 중에서 선택되는 아미노산이고;

X2020은 F 및 W로 이루어진 군 중에서 선택되는 아미노산이고;

X2021은 L 및 V로 이루어진 군 중에서 선택되는 아미노산이고;

X2022는 A, D, F, G, K, L, P, R, S 및 W로 이루어진 군 중에서 선택되는 아미노산이고;

X2023은 존재하거나 부재하고, 존재할 때 X2023은 A, D, F, G, K, L, M, S 및 Y로 이루어진 군 중에서 선택되는 아미노산이고;

펩티드는 X2007과 X2018 사이의 연결에 의해 생성된 고리 구조체를 포함하는 것인 펩티드.

청구항 3

제1항 또는 제2항에 있어서,

X2001은 존재하거나 부재하고, 존재할 때 X2001은 A, D, F, G, H, K, L, P 및 S로 이루어진 군 중에서 선택되는 아미노산이고;

X2002는 A, F, H, K, L, M, R 및 S로 이루어진 군 중에서 선택되는 아미노산이고;

X2003은 F, S 및 Y로 이루어진 군 중에서 선택되는 아미노산이고;

X2004는 K이고;

X2005는 W이고;

X2006은 F, H, K 및 L로 이루어진 군 중에서 선택되는 아미노산이고;

X2007은 C이고;

X2008은 A, G 및 S로 이루어진 군 중에서 선택되는 아미노산이고;

X2009는 M, Nle, p, Sem 및 V로 이루어진 군 중에서 선택되는 아미노산이고;

X2010은 A, K, L, P, R 및 S로 이루어진 군 중에서 선택되는 아미노산이고;

X2011은 D 및 S로 이루어진 군 중에서 선택되는 아미노산이고;

X2012는 D, d, F, f, G, K, k, L, l, M, Nle, P, Sem 및 S로 이루어진 군 중에서 선택되는 아미노산이고;

X2013은 A, D, F, G, K, L 및 S로 이루어진 군 중에서 선택되는 아미노산이고;

X2014는 D 및 G로 이루어진 군 중에서 선택되는 아미노산이고;

X2015는 I 및 T로 이루어진 군 중에서 선택되는 아미노산이고;

X2016은 D, F, K, L, M, Nle, S, Sem 및 Y로 이루어진 군 중에서 선택되는 아미노산이고;

X2017은 S 및 T로 이루어진 군 중에서 선택되는 아미노산이고;

X2018은 C이고;

X2019는 A, F, L, S 및 V로 이루어진 군 중에서 선택되는 아미노산이고;

X2020은 W이고;

X2021은 L 및 V로 이루어진 군 중에서 선택되는 아미노산이고;

X2022는 A, F, G, K, L, P, R, S 및 W로 이루어진 군 중에서 선택되는 아미노산이고;

X2023은 존재하거나 부재하고, 존재할 때 X2023은 A, D, F, G, L, M, S, 및 Y로 이루어진 군 중에서 선택되는 아미노산이고;

펩티드는 X2007과 X2018 사이의 연결에 의해 생성된 고리 구조체를 포함하는 것인 펩티드.

청구항 4

제1항 또는 제2항에 있어서,

X2001은 A, D, F, G, H, K, L 및 S로 이루어진 군 중에서 선택되는 아미노산이고;

X2002는 H, F, M 및 R로 이루어진 군 중에서 선택되는 아미노산이고;

X2003은 F 및 Y로 이루어진 군 중에서 선택되는 아미노산이고;

X2004는 K이고;

X2005는 W이고;

X2006은 F 및 H로 이루어진 군 중에서 선택되는 아미노산이고;

X2007은 C이고;

X2008은 A, G 및 S로 이루어진 군 중에서 선택되는 아미노산이고;

X2009는 M, Sem 및 V로 이루어진 군 중에서 선택되는 아미노산이고;

X2010은 K, P 및 R로 이루어진 군 중에서 선택되는 아미노산이고;

X2011은 D이고;

X2012는 F, L, l, M 및 Sem으로 이루어진 군 중에서 선택되는 아미노산이고;

X2013은 D, G, K 및 S로 이루어진 군 중에서 선택되는 아미노산이고;

X2014는 G이고;

X2015는 I 및 T로 이루어진 군 중에서 선택되는 아미노산이고;

X2016은 D, F, M, Sem 및 Y로 이루어진 군 중에서 선택되는 아미노산이고;

X2017은 S 및 T로 이루어진 군 중에서 선택되는 아미노산이고;

X2018은 C이고;

X2019는 A 및 V로 이루어진 군 중에서 선택되는 아미노산이고;

X2020은 W이고;

X2021은 V이고;

X2022는 F, L, K, R, P 및 W로 이루어진 군 중에서 선택되는 아미노산이고;

X2023은 존재하거나 부재하고, X2023이 존재하는 경우에 A, D, F, M, S 및 Y로 이루어진 군 중에서 선택되는 아미노산 서열이고;

펩티드는 X2017과 X2018 사이의 연결에 의해 생성된 고리 구조체를 포함하는 것인 펩티드.

청구항 5

제1항 또는 제2항에 있어서, 펩티드의 IC_{50}이 1000 nM 미만인 펩티드.

청구항 6

제2항에 있어서, 펩티드의 IC_{50}이 250 nM 미만인 펩티드.

청구항 7

제3항에 있어서, 펩티드의 IC_{50}이 50 nM 미만인 펩티드.

청구항 8

제5항에 있어서, IC_{50}이 경쟁 ELISA에 의해 결정되는 것인 펩티드.

청구항 9

하기 화학식 VII의 서열에 적어도 80% 동일성의 아미노산 서열을 포함하는, TFPI에 결합하는 펩티드.

Ac-FYYKWH[CGMRDMKGTMSC]AWVKF-NH2 (VII) (서열 1040)

청구항 10

제9항에 있어서, 아미노산 서열 동일성이 서열 1040에 적어도 90% 동일한 것인 펩티드.

청구항 11

서열 1001 내지 서열 1210 및 서열 1213 내지 서열 1293으로 이루어진 군 중에서 선택되는 하나의 아미노산 서열로 이루어진 펩티드.

청구항 12

제1항 또는 제2항에 있어서, 상기 펩티드가 TFPI 활성을 억제하는 것인 펩티드.

청구항 13

제12항에 있어서, 펩티드가 10 μM 미만의 해리 상수로 TFPI 1-알파에 결합하는 것인 펩티드.

청구항 14

제1항 또는 제2항에 있어서, 펩티드가 폴리에틸렌 글리콜 (PEG) 모이어티에 접합되는 것인 펩티드.

청구항 15

제1항 또는 제2항에 있어서, 대상체의 치료를 위한 방법에 사용하기 위한 것인 펩티드.

청구항 16

제15항에 있어서, 상기 방법이 혈액 응고 장애의 치료를 위한 것인 펩티드.

청구항 17

제1항 또는 제2항에 있어서, 의약의 제조에 사용하기 위한 것인 펩티드.

청구항 18

제1항 또는 제2항에 있어서, 혈액 응고 장애의 치료를 위한 의약의 제조에 사용하기 위한 것인 펩티드.

청구항 19

제1항 또는 제2항에 규정된 펩티드 및 제약상 허용되는 담체를 포함하는 제약 조성물로서,

저프로트롬빈혈증; 혈우병 A; 혈우병 B; 혈우병 C; 재생불량성 빈혈; 유방암과 연관된 특발성 혈소판감소성 자색반증을 포함한 특발성 또는 면역 혈소판감소증; HIV-연관 혈소판감소증; HIV-관련 혈전성 혈소판감소성 자색반증; 혈소판감소증을 야기하는 전이성 종양; 신생아 루푸스 증후군 비장 비대를 포함하는 전신 홍반 루푸스; 판코니 (Fanconi) 증후군; 비타민 B12 결핍; 엽산 결핍; 메이-헤글린 이상 (May-Hegglin anomaly); 비스코트-올드리치 (Wiskott-Aldrich) 증후군; 만성 간 질환; 혈소판감소증과 연관된 골수이형성 증후군; 발작성 야간 혈색소뇨증; C7E3 Fab (압식시맙 (Abciximab)) 요법 후의 급성 최중증 혈소판감소증; 모성 동종면역 혈소판감소증을 포함하는 동종면역 혈소판감소증; 항인지질 항체 및 혈전증과 연관된 혈소판감소증; 자가면역 혈소판감소증; 카르보플라틴-유도된 혈소판감소증 및 헤파린-유도된 혈소판감소증을 포함하는 약물-유도된 면역 혈소판감소증; 태아 혈소판감소증; 임신성 혈소판감소증; 휴스 (Hughes) 증후군; 루푸스양 혈소판감소증; 사고에 의한 실혈 또는 대량 실혈을 포함하는 실혈; 골수증식 질환; 악성종양이 있는 환자에서 혈소판감소증; 암 환자에서 혈전성 혈소판감소성 자색반증/용혈성 요독 증후군으로서 나타나는 혈전성 미세혈관병증을 포함하는 혈전성 혈소판감소증 자색반증; 수혈후 자색반증 (PTP); 자가면역 용혈성 빈혈; 육안으로 보이지 않는 공장 게실 천공; 진정 적혈구계 무형성증; 자가면역 혈소판감소증; 유행성 신장병증; 리팜피신-연관 급성 신 부전증; 파리-트루소 (Paris-Trousseau) 혈소판감소증; 신생아 동종면역 혈소판감소증; 발작성 야간 혈색소뇨증; 위암에서 혈액학적 변화; 아동의 요독성 병태를 포함하는 용혈성 요독 증후군; A형 간염 바이러스를 포함한 바이러스 감염에 관련된 혈액학적 소견; CMV-연관 혈소판감소증; 폰 빌레브란트 질병; 부신생물 혈소판 기능이상; 글란즈만 (Glanzman) 혈소판 기능 저하증; 베르나르-술리에 (Bernard-Soulier) 질병; 외상에 의해 유발되는 출혈 병태; FXI의 결핍; FXII의 결핍; 프레칼리크레인의 결핍; 고분자량 키니노겐 (HMWK)의 결핍; 비타민 K 결핍; 무섬유소원혈증; 저섬유소원혈증; 이상섬유소원혈증; 알파2-항플라스민 결핍; 또는 과도한 출혈을 포함하는, TFPI의 억제가 유익한 질병에 걸린 대상체를 치료하기 위한 제약 조성물.

청구항 20

제19항에 있어서, 조성물이 추가의 제약상 유효제를 포함하는 제약 조성물.

청구항 21

삭제

청구항 22

세포를 제1항 또는 제2항에 규정된 펩티드와 접촉시키는 것을 포함하되, 인간 세포의 경우는 상기 접촉이 생체외에서 수행되는 것을 전제로 하는,

TFPI를 디스플레이하는 세포를 표적화하는 방법.

청구항 23

제22항에 있어서, 세포가 포유동물 내에 존재하고, 세포를 접촉시키는 것이 펩티드를 포유동물에게 투여하는 것을 포함하는 것인 방법.

청구항 24

제22항에 있어서, 세포 상에 디스플레이된 TFPI에 대한 펩티드 또는 모이어티 결합을 검출하는 것을 추가로 포함하는 방법.

청구항 25

제22항에 있어서, 펩티드가 모이어티에 접합되고, 상기 모이어티는 염료, 형광 염료, 방사성 핵종, 방사성 핵종-함유 복합체, 효소, 독소, 항체, 및 세포독성제로 이루어진 군 중에서 선택되는 것인 방법.

청구항 26

제24항에 있어서, 펩티드-TFPI 결합이 펩티드 또는 모이어티와 복합체화된 상호작용 파트너를 검출함으로써 검출되는 것인 방법.

청구항 27

제26항에 있어서, 상호작용 파트너가 항체, 안티칼린, 앱타머(aptamer), 및 스피겔머(spiegelmer)로 이루어진 군 중에서 선택되는 것인 방법.

청구항 28

◈청구항 28은(는) 설정등록료 납부시 포기되었습니다.◈

제26항에 있어서, 상호작용 파트너가 검출 모이어티를 포함하는 것인 방법.

청구항 29

제28항에 있어서, 검출 모이어티가 염료, 형광 염료, 방사성 핵종, 방사성 핵종-함유 복합체, 및 효소로 이루어진 군 중에서 선택되는 것인 방법.

청구항 30

제1항 또는 제2항의 펩티드를 사용하여, 질병에 걸린 또는 질병에 걸릴 위험이 있는 대상체의 치료를 위한 의약을 제조하는 방법으로, 펩티드가 치료제에 접합되는 것이고, 상기 질병은 TFPI의 억제가 유익한 질병인 것인, 방법.

청구항 31

제1항 또는 제2항의 펩티드를 사용하여, 질병에 걸린 또는 질병에 걸릴 위험이 있는 대상체의 치료를 위한 의약을 제조하는 방법으로, 치료제이거나 또는 치료제에 접합되는 상호작용 파트너가 펩티드에 결합하고, 상기 질병은 TFPI의 억제가 유익한 질병인 것인, 방법.

청구항 32

제31항에 있어서, 상호작용 파트너가 항체, 안티칼린, 앱타머 및 스피겔머로 이루어진 군 중에서 선택되는 것인 방법.

청구항 33

제30항에 있어서, 치료제가 염료, 형광 염료, 방사성 핵종, 방사성 핵종-함유 복합체, 효소, 독소, 항체, 및 세포독성제로 이루어진 군 중에서 선택되는 것인 방법.

청구항 34

제1항 또는 제2항의 펩티드를 사용하되, 인간의 경우는 방법이 생체 외에서 수행되는 것을 전제로 하고, 질병은

TFPI의 억제가 유익한 질병인 것인, TFPI에 연관된 질병에 걸린 또는 TFPI에 연관된 질병에 걸릴 위험이 있는 대상체의 진단을 위한 방법.

청구항 35

제1항 또는 제2항의 펩티드를 사용하는, TFPI에 연관된 질병에 걸린 또는 TFPI에 연관된 질병에 걸릴 위험이 있는 대상체의 진단을 위한 방법으로, 대상체로부터 얻은 생물학적 샘플에 검출가능한 모이어티에 접합된 상호작용 파트너를 투여하고, 검출가능한 모이어티의 검출은 대상체가 질병에 걸렸거나 질병에 걸릴 위험이 있다는 것을 나타내는 것이고, 상기 질병은 TFPI의 억제가 유익한 질병인 것이고, 인간의 경우는 생체 외에서 수행되는 것을 전제로 하는, 방법.

청구항 36

제35항에 있어서, 상호작용 파트너가 항체, 안티칼린, 앱타머, 및 스피겔머로 이루어진 군 중에서 선택되는 것인 방법.

청구항 37

제35항에 있어서, 검출가능한 모이어티가 염료, 형광 염료, 방사성 핵종, 방사성 핵종-함유 복합체, 효소, 독소, 항체, 및 세포독성제로 이루어진 군 중에서 선택되는 것인 방법.

청구항 38

제34항에 있어서, 질병이 TFPI와 연관된 질병으로서, TFPI의 억제에 의해 치료될 수 있거나 그의 증상이 개선될 수 있는 것이고, 상기 질병은 TFPI의 억제가 유익한 질병인 것인 방법.

청구항 39

제38항에 있어서, 질병이 혈액 응고 장애인 방법.

청구항 40

a) TFPI를 함유하는 샘플을 TFPI와 제1항 또는 제2항에 규정된 펩티드 사이에 복합체를 형성시키기 위해 적절한 조건 하에 상기 펩티드와 접촉시키고;

b) 샘플로부터 복합체를 제거하고;

임의로, c) 복합체를 해리시켜 TFPI를 방출시키는 것

을 포함하는, TFPI의 정제 방법.

청구항 41

◈청구항 41은(는) 설정등록료 납부시 포기되었습니다.◈

제40항에 있어서, 상기 펩티드가 고체 지지체에 고정되는 것인 방법.

청구항 42

◈청구항 42은(는) 설정등록료 납부시 포기되었습니다.◈

제40항에 있어서, 상기 펩티드가 크로마토그래피 정지상에 고정되고, 단계 (c)가 고정된 펩티드에 결합된 TFPI를 용출시키는 것을 포함하는 것인 방법.

청구항 43

◈청구항 43은(는) 설정등록료 납부시 포기되었습니다.◈

제40항에 있어서, 상기 펩티드가 친화도 크로마토그래피를 통해 정제되는 것인 방법.

발명의 설명

기 술 분 야

[0001] 본 발명은 일반적으로 조직 인자 경로 억제제 (TFPI)에 결합하는 펩티드 및 그의 용도에 관한 것이다.

[0002] **관련 출원에 대한 교차 참조 및 참조에 의한 포함**

[0003] 본원은 2008년 12월 19일자 출원된 미국 특허 가출원 61/139,272에 대한 우선권을 주장하고, 상기 출원의 개시 내용은 그 전문이 참고로 포함된다.

배 경 기 술

[0004] 지혈은 복잡한 응고 케스케이드에 의존하고, 여기서 혈액 응고 인자에 의해 매개된 일련의 사건은 프로트롬빈의 트롬빈으로의 전환을 일으킨다. 인자 X (FX) 활성화는 고유 및 외인성 경로의 응고 케스케이드 모두의 중심 사건이다. 외인성 경로는 응고 케스케이드의 1차 활성제로서 제안되었다 (Mackman et al., Arterioscler. Thromb. Casc. Biol, 27, 1687-1693 (2007)). 순환 조직 인자 (TF) 및 활성화된 인자 VII (FVIIa)는 상호작용하여 "외인성 복합체"를 형성하고, 이는 FX의 활성화를 매개한다. 응고 케스케이드는 고유 경로에 의해 증폭되고, 그 동안 인자 XII, XI, IX, 및 VIII의 연속적인 활성화는 또한 FX 활성화를 매개하는 "고유" FIXa-FVIIIa 복합체의 형성을 일으킨다. 활성화된 FX는 트롬빈 형성을 촉진하고, 이것은 신체가 섬유소 (fibrin)를 생성하고 출혈을 효과적으로 제한하기 위해 요구된다.

[0005] 혈우병과 같은 중증 출혈 질환은 혈액 응고 케스케이드의 파괴로부터 기인한다. 가장 일반적인 유형의 혈우병인 혈우병 A는 인자 VIII의 결핍에서 기인하는 반면, 혈우병 B는 인자 IX (FIX)의 결핍과 연관된다. 혈우병 C는 인자 XI (FXI)의 결핍에 의해 야기된다 (Cawthern et al., Blood, 91(12), 4581-4592 (1998)). 현재 혈우병 및 다른 응고 질병에 대한 치유법은 없다. 인자 대체 요법이 혈액 응고 질환에 대한 가장 일반적인 치료법이다. 그러나, 혈액 응고 인자는 대개 투여 직후에 혈류로부터 청소된다. 효과적이기 위해서는 환자는 혈장-유래 또는 재조합 인자 농축물의 빈번한 정맥내 주입을 받아야 하고, 이것은 불편하고, 임상 환경을 필요로 하고, 비싸고, 시간 소모적이다. 또한, 인자 대체 요법의 치료 효능은 억제 항체의 형성 시에 대폭 감소될 수 있다. 중증 혈우병 A 환자의 약 30%가 인자 VIII (FVIII)를 중화시키는 억제 항체를 발생시킨다 (Peerlinck and Hermans, Haemophilia, 12, 579-590 (2006)). 항-인자 항체를 가진 환자에게는 치료 옵션 (option)이 거의 없다.

[0006] 따라서, 당업계에서는 혈액 응고 질환을 치료하기 위한 조성물 및 방법이 필요하다. 본 발명은 그러한 조성물 및 방법을 제공한다.

발명의 내용

[0007] **발명의 개요**

[0008] 본 발명은 조직 인자 경로 억제제 (TFPI)에 결합하는 펩티드, 예를 들어 혈액 응고 케스케이드를 조정하는 능력을 갖는 TFPI 길항성 펩티드를 제공한다. 예를 들어, 본 발명은 다음 아미노산 서열을 포함하는 펩티드를 제공한다:

[0009] $X_7X_8X_9X_{10}X_{11}X_{12}X_{13}X_{14}X_{15}X_{16}X_{17}X_{18}X_{19}X_{20}X_{21}$ (서열 3109)

[0010] 여기서,

[0011] X_7은 L, P, K, S, W, V, N, 및 Q로 이루어진 군 중에서 선택되고;

[0012] X_8은 L, R, N, F, 및 I로 이루어진 군 중에서 선택되고;

[0013] X_9는 Y, V, P, 및 C로 이루어진 군 중에서 선택되고;

[0014] X_{10}은 F, L, 및 G로 이루어진 군 중에서 선택되고;

[0015] X_{11}은 L, W, V, A, M, T, 및 S로 이루어진 군 중에서 선택되고;

[0016] X_{12}는 T, F, V, R, A, D, L, E, S, 및 Y로 이루어진 군 중에서 선택되고;

[0017] X_{13}은 I, M, G, Q, D, 및 R로 이루어진 군 중에서 선택되고;

[0018] X_{14}는 G, W, Y, L, M, 및 H로 이루어진 군 중에서 선택되고;

[0019] X_{15}는 N, P, F, H, K, 및 Y로 이루어진 군 중에서 선택되고;

[0020] X_{16}은 M, D, E, V, G, 및 K로 이루어진 군 중에서 선택되고;

[0021] X_{17}은 G, I, R, S, T, 및 L로 이루어진 군 중에서 선택되고;

[0022] X_{18}은 M, K, L, 및 I로 이루어진 군 중에서 선택되고;

[0023] X_{19}는 Y, G, R, 및 S로 이루어진 군 중에서 선택되고;

[0024] X_{20}은 A, E, S, C, 및 Y로 이루어진 군 중에서 선택되고;

[0025] X_{21}은 A, V, K, 및 E로 이루어진 군 중에서 선택된다.

[0026] 하나의 측면에서, 펩티드는 X_7에 직접 연결된 하나 이상의 N-말단 아미노산(들)을 포함하고, 여기서 N-말단 아미노산(들)은

[0027] X_6,

[0028] X_5X_6,

[0029] $X_4X_5X_6$,

[0030] $X_3X_4X_5X_6$ (서열 3110),

[0031] $X_2X_3X_4X_5X_6$ (서열 3111), 및

[0032] $X_1X_2X_3X_4X_5X_6$ (서열 3112)로 이루어진 군 중에서 선택된 아미노산 서열을 포함하고, 여기서

[0033] X_1은 T 및 G로 이루어진 군 중에서 선택되고; X_2는 F 및 V로 이루어진 군 중에서 선택되고; X_3은 V, W, Y, 및 F로 이루어진 군 중에서 선택되고; X_4는 D, Q, 및 S로 이루어진 군 중에서 선택되고; X_5는 E, T, N, 및 S로 이루어진 군 중에서 선택되고; X_6은 R, H, K, 및 A로 이루어진 군 중에서 선택된다.

[0034] 별법으로 또는 추가로, 펩티드는 X_{21}에 직접 연결된 하나 이상의 C-말단 아미노산을 포함하고, 여기서 C-말단 아미노산(들)은

[0035] X_{22},

[0036] $X_{22}X_{23}$,

[0037] $X_{22}X_{23}X_{24}$,

[0038] $X_{22}X_{23}X_{24}X_{25}$ (서열 3113),

[0039] $X_{22}X_{23}X_{24}X_{25}X_{26}$ (서열 3114), 및

[0040] $X_{22}X_{23}X_{24}X_{25}X_{26}X_{27}$ (서열 3115)로 이루어진 군 중에서 선택된 아미노산 서열을 포함하고, 여기서

[0041] X_{22}는 Q, I, E, W, R, L, 및 N으로 이루어진 군 중에서 선택되고; X_{23}은 L, V, M, 및 R로 이루어진 군 중에서 선택되고; X_{24}는 K, L, A, 및 Y로 이루어진 군 중에서 선택되고; X_{25}는 F이고; X_{26}은 G이고; X_{27}은 T이다.

[0042] 하나의 측면에서, 본 발명은 서열 1-7에 제시된 아미노산 서열을 포함하는 펩티드, 예를 들어 JBT0132, JBT0303, JBT0193, JBT0178, JBT0120, 및 JBT0224 중 임의의 하나에 제시된 아미노산 서열을 포함하는 펩티드를 제공하고, 이는 혈액 응고 케스케이드 내에서 TFPI 활성을 억제한다. 본 발명은 Phe-Gln-Ser-Lys-Gly-Asn-

Val-Phe-Val-Asp-Gly-Tyr-Phe-Glu-Arg-Leu-Arg-Ala-Lys-Leu (FQSKGNVFVDGYFERLRAKL) (서열 32)의 서열에 적어도 60% 동일성의 아미노산 서열을 포함하는, TFPI에 결합하는 펩티드를 또한 제공한다.

[0043] 또한, 본 발명은 TFPI에 결합하는 펩티드를 제공하고, 여기서 펩티드는 화학식 I의 구조를 포함한다: X1001-X1002-X1003-X1004-X1005-X1006-X1007-X1008-X1009-X1010-X1011-X1012-X1013-X1014-X1015-X1016-X1017-X1018-X1019-X1020 (I) (서열 3116).

[0044] 화학식 I에서,

[0045] X1001은 Bhf, C, D, F, G, H, I, K, L, M, N, Nmf, Q, R, T, V, W 및 Y로 이루어진 군 중에서 선택되는 아미노산이고;

[0046] X1002는 G, K 및 Q로 이루어진 군 중에서 선택되는 아미노산이고;

[0047] X1003은 A, Aib, Bhs, C, D, E, F, G, H, I, K, L, M, N, P, Q, R, S, T, V, W 및 Y로 이루어진 군 중에서 선택되는 아미노산이고;

[0048] X1004는 A, Aib, Bhk, C, D, E, F, G, H, I, K, k, L, M, N, Nmk, P, Q, R, S, T, V, W 및 Y로 이루어진 군 중에서 선택되는 아미노산이고;

[0049] X1005는 a, A, Aib, Bal, C, D, d, E, F, G, H, K, k, L, M, N, Nmg, p, Q, R, S, T, V, W 및 Y로 이루어진 군 중에서 선택되는 아미노산이고;

[0050] X1006은 A, Aib, Btq, C, D, E, F, G, H, I, K, L, M, N, Q, R, S, T, V, W 및 Y로 이루어진 군 중에서 선택되는 아미노산이고;

[0051] X1007은 A, F, G, I, K, L, Nmv, P, Q, S, V, W 및 Y로 이루어진 군 중에서 선택되는 아미노산이고;

[0052] X1008은 F, H, K, W 및 Y로 이루어진 군 중에서 선택되는 아미노산이고;

[0053] X1009는 A, Aib, f, I, K, S, T 및 V로 이루어진 군 중에서 선택되는 아미노산이고;

[0054] X1010은 A, Aib, C, D, E, F, G, H, I, K, L, M, N, Nmf, P, Q, R, S, T, V, W 및 Y로 이루어진 군 중에서 선택되는 아미노산이고;

[0055] X1011은 Aib, C, K, G 및 Nmg로 이루어진 군 중에서 선택되는 아미노산이고;

[0056] X1012는 Y이고;

[0057] X1013은 A, Aib, C, E, F, G, H, K, L, M, Q, R, W 및 Y로 이루어진 군 중에서 선택되는 아미노산이고;

[0058] X1014는 A, Aib, Bhe, C, D, E, F, G, H, I, K, L, M, N, P, Q, R, S, T, V, W 및 Y로 이루어진 군 중에서 선택되는 아미노산이고;

[0059] X1015는 (오메가-메틸)-R, D, E, K 및 R로 이루어진 군 중에서 선택되는 아미노산이고;

[0060] X1016은 L이고;

[0061] X1017은 (오메가-메틸)-R, A, Aib, Bhr, C, Cha, Cit, D, Dab, Dap, E, Eag, Eew, F, G, H, Har, Hci, Hle, I, K, L, M, N, Nle, Nva, Opa, Orn, Q, R, S, T, V, W 및 Y로 이루어진 군 중에서 선택되는 아미노산이고;

[0062] X1018은 A, Bal, C, D, E, F, G, H, I, K, L, M, N, Q, R, S, T, V, W 및 Y로 이루어진 군 중에서 선택되는 아미노산이고;

[0063] X1019는 Bhk, K, R 및 V로 이루어진 군 중에서 선택되는 아미노산이고;

[0064] X1020은 존재하거나 부재하고, 존재할 때 X1020은 Aib, Bhl, C, F, G, H, I, K, L, Nml, Q, R, S, T, V, W 및 Y로 이루어진 군 중에서 선택되는 아미노산이다.

[0065] 하나의 측면에서, TFPI에 결합하는 펩티드는 하기 화학식 III의 구조를 포함한다: X1001-Q-X1003-X1004-X1005-X1006-I/V-X1008-V-X1010-G-Y-C/F-X1014-R-L-X1017-X1018-K-K/L (III) (서열 3117). 화학식 III에서, X1001, X1003, X1004, X1005, X1006, X1008, X1010, X1014, X1017 및 X1018은 각각 독립적으로 임의의 아미노산 중에서 선택된다.

[0066] 본 발명은 하기 화학식 V의 구조를 포함하는 TFPI-결합 펩티드를 추가로 제공한다: X2001-X2002-X2003-X2004-

X2005-X2006-[X2007-X2008-X2009-X2010-X2011-X2012-X2013-X2014-X2015-X2016-X2017-X2018]-X2019-X2020-X2021-X2022-X2023 (V) (서열 3118). 화학식 V에서, X2001, X2002, 및 X2023은 독립적으로 존재하거나 부재한다. 존재할 때, X2001은 A, D, E, F, G, H, I, K, L, P, R, S, T, V 및 W로 이루어진 군 중에서 선택되는 아미노산이고; X2002는 A, D, E, F, G, H, I, K, L, M, P, R, S, T, V 및 W로 이루어진 군 중에서 선택되는 아미노산이다. 추가로,

[0067] X2003은 A, F, I, K, L, R, S, T, V, W 및 Y로 이루어진 군 중에서 선택되는 아미노산이고;

[0068] X2004는 A, D, E, F, G, I, K, L, R, S, T, V 및 W로 이루어진 군 중에서 선택되는 아미노산이고;

[0069] X2005는 W이고;

[0070] X2006은 F, H, I, K, L, R, V 및 W로 이루어진 군 중에서 선택되는 아미노산이고;

[0071] X2007은 C, Hcy, Dap 및 K로 이루어진 군 중에서 선택되는 아미노산, 바람직하게는 C 및 Hcy로 이루어진 군 중에서 선택되는 아미노산이고;

[0072] X2008은 A, G, R, S 및 T로 이루어진 군 중에서 선택되는 아미노산이고;

[0073] X2009는 a, A, I, K, L, M, m, Nle, p, R, 및 V로 이루어진 군 중에서 선택되는 아미노산이고;

[0074] X2010은 A, G, I, K, L, P, R, S, T 및 V로 이루어진 군 중에서 선택되는 아미노산이고;

[0075] X2011은 D, E, G, S 및 T로 이루어진 군 중에서 선택되는 아미노산이고;

[0076] X2012는 A, a, D, d, E, e, F, f, G, I, K, k, L, l, M, m, Nle, nle, P, p, R, r, S, s, T, t, V, v, W 및 w로 이루어진 군 중에서 선택되는 아미노산이고;

[0077] X2013은 A, D, d, E, e, F, G, I, K, L, R, S, s, T, V 및 W로 이루어진 군 중에서 선택되는 아미노산이고;

[0078] X2014는 A, D, E, F, G, I, K, L, M, R, S, T, V 및 W로 이루어진 군 중에서 선택되는 아미노산이고;

[0079] X2015는 A, D, E, F, G, I, K, L, M, Nle, R, S, T, V 및 W로 이루어진 군 중에서 선택되는 아미노산이고;

[0080] X2016은 A, D, E, F, I, K, L, M, Nle, R, S, T, V, W 및 Y로 이루어진 군 중에서 선택되는 아미노산이고;

[0081] X2017은 A, D, E, F, G, I, K, L, R, S, T, V, W 및 Y로 이루어진 군 중에서 선택되는 아미노산이고;

[0082] X2018은 C 및 D로 이루어진 군 중에서 선택되는 아미노산이고 (바람직하게는 X2018은 C이다);

[0083] X2019는 A, F, I, L, S, T, V 및 W로 이루어진 군 중에서 선택되는 아미노산이고;

[0084] X2020은 F 및 W로 이루어진 군 중에서 선택되는 아미노산이고;

[0085] X2021은 I, L 및 V로 이루어진 군 중에서 선택되는 아미노산이고;

[0086] X2022는 A, D, E, F, G, I, K, L, P, R, S, T, V, 및 W로 이루어진 군 중에서 선택되는 아미노산이다.

[0087] X2023이 펩티드 내에 존재할 때, X2023은 A, D, E, F, G, I, K, L, R, S, T, V, W 및 Y로 이루어진 군 중에서 선택되는 아미노산이다. 펩티드는 화학식 V에서 괄호로 나타낸, X2007과 X2018 사이의 연결에 의해 생성된 고리 구조체를 포함한다.

[0088] 본 발명은 또한 TFPI에 결합하는 펩티드를 제공하고, 여기서 펩티드는 하기 화학식 VI의 구조를 포함한다: X2001-X2002-F/Y-K-W-F/H-[C-X2008-M/V-X2010-D-X2012-X2013-G-I/T-X2016-S/T-C]-A/V-W-V-X2022-X2023 (VI) (서열 3119). 화학식 VI에서, X2001, X2002 및 X2023은 각각 독립적으로 존재하거나 부재한다. X2008, X2010, X2012, X2013, X2016 및 X2022뿐만 아니라 X2001, X2002 및 X2023 (존재할 때)은 각각 독립적으로 임의의 아미노산으로부터 선택된다. 펩티드는 화학식 VI에서 괄호로 나타낸, X2007과 X2018 사이의 연결에 의해 생성된 고리 구조체를 포함한다.

[0089] 하나의 측면에서, 본 발명은 TFPI에 결합하는 펩티드를 제공하고, 여기서 펩티드는 하기 화학식 VIII의 구조를 포함한다: X3001-X3002-X3003-X3004-X3005-X3006-X3007-X3008-X3009-X3010-X3011-X3012-X3013-X3014-X3015-X3016-X3017-X3018-X3019-X3020-X3021 (VIII) (서열 3120). 화학식 VIII에서, X3001 및 X3002는 각각 독립적으로 존재하거나 부재한다. 존재할 때, X3001은 A, C, D, F, G, I, K, L, M, N, P, Q, R, S, T, W, E, H 및 Y로 이루어진 군 중에서 선택되는 아미노산이고; X3002는 A, C, D, F, H, K, M, N, P, R, S, T, W, Y, G, I 및

L로 이루어진 군 중에서 선택되는 아미노산이다. 화학식 VIII의 나머지에 관하여,

[0090] X3003은 A, C, D, E, F, G, H, I, K, L, M, N, P, Q, R, S, T, W 및 Y로 이루어진 군 중에서 선택되는 아미노산이고;

[0091] X3004는 A, C, D, E, F, G, H, I, K, L, M, N, Q, R, S, T, V, W, Y 및 P로 이루어진 군 중에서 선택되는 아미노산이고;

[0092] X3005는 C, D, F, G, H, I, K, L, M, N, P, R, S, T, V, W 및 Y로 이루어진 군 중에서 선택되는 아미노산이고;

[0093] X3006은 A, W, C, K, P, R 및 H로 이루어진 군 중에서 선택되는 아미노산이고;

[0094] X3007은 Q, A, C, F, G, H, I, K, L, N, R, S, T, W 및 Y로 이루어진 군 중에서 선택되는 아미노산이고;

[0095] X3008은 A, C, F, G, H, K, L, M, N, P, Q, R, S, T, V, W, Y 및 I로 이루어진 군 중에서 선택되는 아미노산이고;

[0096] X3009는 A, C, F, G, H, I, L, M, R, S, T, V, W, Y 및 K로 이루어진 군 중에서 선택되는 아미노산이고;

[0097] X3010은 A, C, F, G, H, I, K, L, M, N, P, Q, R, S, T, V, W 및 Y로 이루어진 군 중에서 선택되는 아미노산이고;

[0098] X3011은 A, G, I, K, L, M, N, Q, R, S, T, V, W, Y, C, F 및 H로 이루어진 군 중에서 선택되는 아미노산이고;

[0099] X3012는 A, C, H, I, K, L 및 R로 이루어진 군 중에서 선택되는 아미노산이고;

[0100] X3013은 A, C, F, G, H, K, L, M, R, S, V, W, Y 및 I로 이루어진 군 중에서 선택되는 아미노산이고;

[0101] X3014는 A, C, F, G, H, I, L, M, N, Q, R, S, T, V, W, Y 및 K로 이루어진 군 중에서 선택되는 아미노산이고;

[0102] X3015는 A, K 및 R로 이루어진 군 중에서 선택되는 아미노산이고;

[0103] X3016은 A, F, K 및 R로 이루어진 군 중에서 선택되는 아미노산이고;

[0104] X3017은 A, C, F, G, I, K, L, N, Q, R, S, T, V, W, Y, H, A 및 M으로 이루어진 군 중에서 선택되는 아미노산이고;

[0105] X3018은 A, C, F, I, K, L, M, Q, R, V, W 및 Y로 이루어진 군 중에서 선택되는 아미노산이고;

[0106] X3019는 A, C, D, E, F, G, H, K, L, N, P, Q, R, V, W, Y 및 I로 이루어진 군 중에서 선택되는 아미노산이고;

[0107] X3020은 A, C, F, G, H, K, L, M, N, Q, R, V, W, Y, I 및 P로 이루어진 군 중에서 선택되는 아미노산이고;

[0108] X3021은 A, C, H, I, K, L, M, N, P, Q, R, T, V, W, Y, F 및 G로 이루어진 군 중에서 선택되는 아미노산이다.

[0109] 추가로, 본 발명은 하기 화학식 IX의 구조를 포함하는, TFPI-결합 펩티드를 제공한다: X3001-X3002-X3003-X3004-X3005-X3006-X3007-X3008-X3009-X3010-X3011-H-X3013-X3014-K/R-R-X3017-X3018-X3019-X3020-X3021 (IX) (서열 3121). 여기서, X3001, X3002, X3003, X3004, X3005, X3006, X3007, X3008, X3009, X3010, X3011, X3013, X3014, X3017, X3018, X3019, X3020 및 X3021은 각각 독립적으로 임의의 아미노산으로부터 선택된다. 또한, 본 발명은 TFPI에 결합하는 펩티드를 포함하고, 여기서 펩티드는 다음 화학식 X의 서열에 적어도 60% 동일성을 갖는 아미노산 서열을 포함한다: Ac-GYASFPWFVQLHVHKRSWEMA-NH2 (서열 223). 본원의 문맥에서, 화학식 I 내지 X 중 임의의 것에 포함된 임의의 펩티드 및 본원에 기재된 임의의 TFPI-결합 펩티드는 또한 "본 발명의 펩티드" 및 "본원에 기재된 펩티드"로서 칭해진다.

[0110] 일부 실시양태에서, 본 발명의 펩티드는 TFPI-1 (예를 들어, TFPI-1α)에 결합하고, 임의로 FVIII, FIX, 및/또는 FXI의 부재 하에 TFPI-조절된 트롬빈 생성을 개선한다. 펩티드를 포함하는 조성물 (예를 들어, 제약 조성물)을 또한 제공한다.

[0111] 또한, 본 발명은 본 발명의 펩티드의 사용 방법을 제공한다. 예를 들어, 본 발명은 TFPI를 본원에 기재된 펩티드와 접촉시키는 것을 포함하는, TFPI의 억제 방법을 제공한다. 본 발명은 또한 응고 인자-결여 대상체에서 트롬빈 형성을 향상시키는 방법, 대상체에서 혈병 (blood clot) 형성을 증가시키는 방법, 및 대상체에서 혈액 응고 질환을 치료하는 방법을 제공한다. 상기 방법들은 그 전체를 또한 본원에서 예를 들어, "본 발명의 방법"으로서 칭한다. 방법은 대상체에게 본원에 기재된 펩티드를 대상체에서 트롬빈 형성을 향상시키기 위해 효과적인 양, 혈병 형성을 향상시키기 위해 효과적인 양, 또는 혈액 응고 질환을 치료하기 위해 효과적인 양으로 투여하

는 것을 포함한다. 명백하게 반대로 나타내지 않으면, 본 발명의 하나의 펩티드 또는 본 발명의 방법에 관하여 본원에서 제공되는 설명은 본 발명의 각각의 및 모든 펩티드 및 본 발명의 방법에 각각 적용된다. 본 발명의 추가의 측면은 의약의 제조를 위한 본 발명의 펩티드의 용도, TFPI를 디스플레이하는 세포를 표적화하는 방법, 질병에 걸린 또는 질병에 걸릴 위험이 있는 대상체의 치료 또는 진단 방법, 및 TFPI를 정제하는 방법을 포함한다. 선행 방법은 그 전체가 또한 본원에서 예를 들어, "본 발명의 방법"으로서 칭해진다.

도면의 간단한 설명

[0112] 도 1은 혈액 응고 케스케이드의 도면이다.

도 2는 조직 인자 경로 억제제-1의 2차 구조의 도면이다.

도 3은 조직 인자, 인자 Xa (FXa), 인자 VIIa (FVIIa), 및 TFPI를 포함하는 4원 복합체의 형성의 도면이다.

도 4는 펩티드 JBT0293에 관하여 아미노산 치환 (굵고 밑줄친)을 나타내는 다양한 TFPI-억제 펩티드의 아미노산 서열의 목록이다.

도 5는 TFPI-억제제 펩티드의 mRNA 디스플레이 선택의 도면이다.

도 6A는 EC_{50} 결합 ELISA의 도면이고, 도 6B는 실시예 1에 기재된 IC_{50} ELISA의 도면이다.

도 7은 비오티닐화 펩티드 JBT0132에 대한 % OD (y축) 및 농도 [nM] (x-축)를 비교하는 결합 ELISA 곡선이다.

도 8A-8D는 본 발명의 예시적인 펩티드에 대한 % OD (y축) 및 농도 [nM] (x축)를 비교하는 경쟁 ELISA 곡선이다.

도 9A 및 9B는 펩티드 JBT0120 및 JBT0132에 대해 RU (y축)를 시간 (초) (x축)에 대해 플로팅한 센소그램 (sensorgram)이다.

도 10A 및 10B는 조직 인자 경로 억제제-1 및 조직 인자 경로 억제제-2와 펩티드 JBT0120 상호작용에 대해 RU (y축)를 시간 (초) (x축)에 대해 플로팅한 센소그램이다.

도 11A 및 11B는 혈장-기반 분석에서 펩티드 JBT0120 및 펩티드 JBT0132에 대해 생성된 트롬빈의 양 (nM) (y축) 및 시간 (분) (x축)을 비교하는 그래프이다.

도 12-18은 다양한 TFPI-억제 펩티드의 아미노산 서열; FXa 억제 분석에서 관찰된 TFPI의 EC_{50} 및 % 억제; 외인성 테나제 (tenase) 억제 분석에서 관찰된 TFPI의 EC50 및 % 억제; 및 혈장-기반 분석에서 FEIBA, 인자 VIII (FVIII) 이뮤네이트 (Immunate), 또는 인자 IX (FIX) 등가 활성 (mU/mL)을 나열하는 표이다. "*"는 음성 대조군을 나타낸다.

도 19-21은 몇몇 TFPI-결합 펩티드의 BIAcore 분석의 결과를 나열하는 표이다. "*"는 음성 대조군을 나타낸다.

도 22-30은 다양한 TFPI-결합 펩티드의 아미노산 서열; FXa 억제 분석에서 관찰된 TFPI의 EC_{50} 및 % 억제; 외인성 테나제 억제 분석에서 관찰된 TFPI의 EC_{50} 및 % 억제; 및 혈장-기반 분석에서 FEIBA, FVIII 이뮤네이트, 또는 FIX 등가 활성 (mU/mL)을 나열하는 표이다. "*"는 음성 대조군을 나타낸다.

도 31은 PEG화된 TFPI-결합 펩티드의 약동학 특징 (펩티드의 농도 (y축) 대 투여 후 시간 (x축))을 PEG가 결핍되는 동일한 펩티드의 약동학 특징에 비교하는 그래프이다. 펩티드를 C57B16 마우스에 10 mg/kg의 용량으로 정맥내 투여하였다. 3개의 생물학적 샘플을 각각의 시점에서 펩티드의 존재에 대해 분석하였다.

도 32-39는 본 발명의 다양한 펩티드의 아미노산 서열 및 IC_{50} 또는 EC_{50} 값을 나열하는 표이다. "*"는 음성 대조군을 나타낸다.

발명을 실시하기 위한 구체적인 내용

[0113] 본 발명은 혈액 응고 케스케이드 내에서 조직 인자 경로 억제제-1 (본원에서 TFPI로서 칭함)의 억제 활성을 차단하는 펩티드를 제공한다. 혈관 손상 시에, 조직 인자 (TF) 복합체는 인자 VIIa와 함께 "외인성 복합체" 또는 "외인성 테나제 복합체"를 형성하고, 이는 인자 IX 및 X를 활성화시킨다 (도 1). TFPI는 TF/FVIIa 외인성 복합

체 활성의 주요 천연 조절물질이고, 연장에 의해, 트롬빈 생성을 제어하는데 일정 역할을 한다 (Panteleev et al., Eur. J. Biochem., 249, 2016-2031 (2002)). TFPI는 3개의 쿠니츠 (Kunitz)-형 억제 도메인을 포함하는 43 kDa 세린 프로테아제 억제제이다 (도 2). TFPI의 쿠니츠 도메인 1은 FVIIa에 결합하고, 쿠니츠 도메인 2는 FXa에 결합하여, 억제제가 TF/FVIIa 외인성 복합체의 활성을 차단하는 4원 FXa-TFPI-FVIIa-TF 복합체를 형성하도록 허용한다 (도 3). FXa의 TFPI 결합은 또한 응고 케스케이드의 공통 경로를 하향조절하고, 그 동안 FXa는 프로트롬빈을 트롬빈으로 전환시킨다 (Audu et al., Anesth. Analg., 103(4), 841-845 (2006)). 본 발명은 예를 들어, 혈액 응고 케스케이드에 대한 TFPI의 억제 작용을 차단하여 트롬빈 형성을 향상시키는 TFPI-억제 펩티드를 제공한다.

[0114] 몇몇 TFPI-결합 펩티드의 아미노산 서열을 본원에서 제공한다. 통상적인 아미노산은 표 1에 제시된 바와 같이 그들의 표준 1-문자 또는 3-문자 코드에 따라 확인된다.

표 1

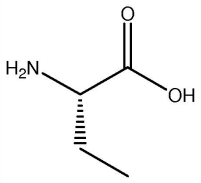
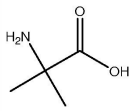
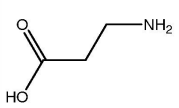
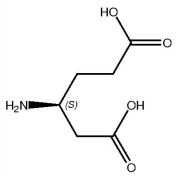
[0115]

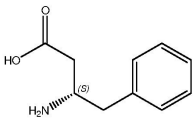
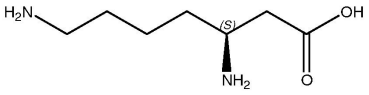
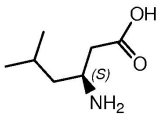
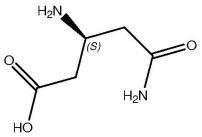
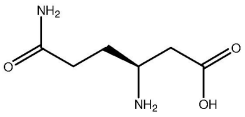
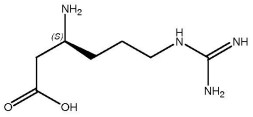
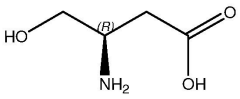
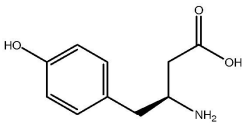
3-문자 코드	1-문자 코드	아미노산	3-문자 코드	1-문자 코드	아미노산
Ala	A	알라닌	Met	M	메티오닌
Cys	C	시스테인	Asn	N	아스파라긴
Asp	D	아스파르트산	Pro	P	프롤린
Glu	E	글루탐산	Gln	Q	글루타민
Phe	F	페닐알라닌	Arg	R	아르기닌
Gly	G	글라이신	Ser	S	세린
His	H	히스티딘	Thr	T	트레오닌
Ile	I	이소류신	Val	V	발린
Lys	K	라이신	Trp	W	트립토판
Leu	L	류신	Tyr	Y	티로신

[0116] 비-통상적인 아미노산 및 추가의 펩티드 빌딩 블록 (building block)은 표 2에 제공된 3-문자 코드 (일반적인 4-문자 약어인 Ttds 제외)에 따라 확인된다.

표 2

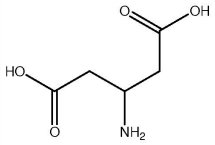
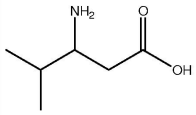
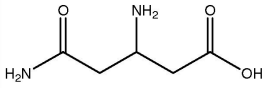
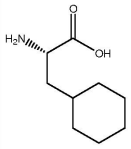
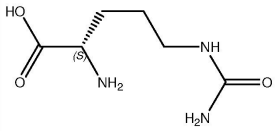
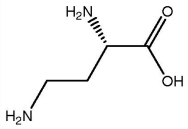
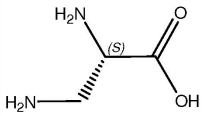
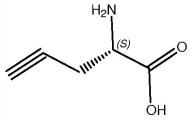
[0117]

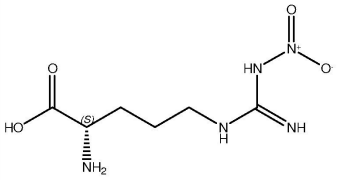
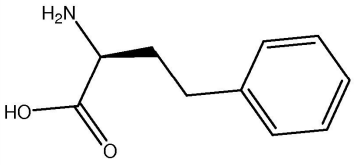
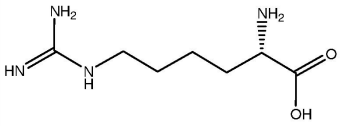
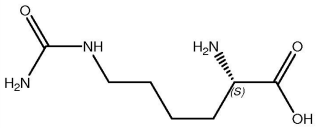
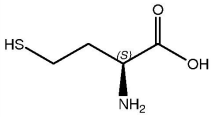
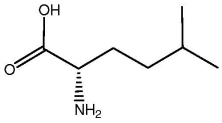
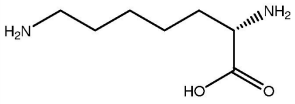
명칭	약어	구조
2-아미노부티르산	Abu	
2-아미노-이소부티르산	Aib	
β-알라닌	Bal	
β-호모글루탐산	Bhe	

명칭	약어	구조
β-호모페닐알라닌	Bhf	
β-호모라이신	Bhk	
β-호모류신	Bhl	
β-호모아스파라긴	Bhn	
β-호모글루타민	Bhq	
β-호모아르기닌	Bhr	
β-호모세린	Bhs	
β-호모티로신	Bhy	

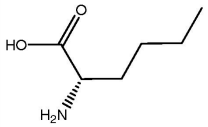
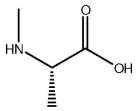
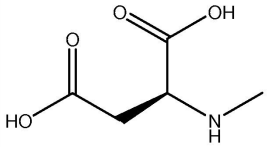
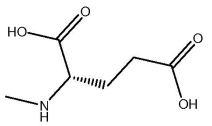
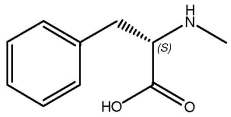
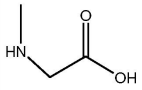
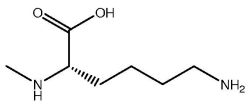
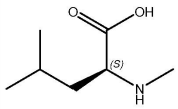
[0118]

[0119]

명칭	약어	구조
β-호모아스파르트산	Bhd	
β-호모발린	Bhv, Btl	
β-호모아스파라긴	Bhn, Btq	
(S)-시클로헥실알라닌	Cha	
(S)-시트룰린	Cit	
(S)-2,4-디아미노부티르산	Dab	
(S)-디아미노프로피온산	Dap	
(S)-2-프로파르길글라이신	Eag	

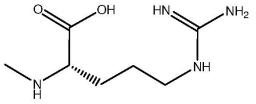
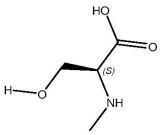
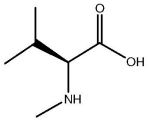
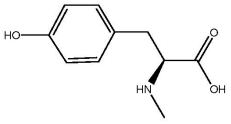
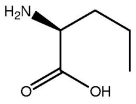
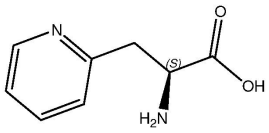
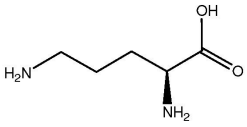
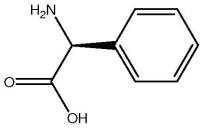
명칭	약어	구조
(S)-N(오메가)-니트로-아르기닌	Eew	
L-호모페닐알라닌	Hfe	
(S)-호모-아르기닌	Har	
(S)-호모-시트룰린	Hci	
(S)-호모-시스테인	Hcy	
(S)-2-아미노-5-메틸-헥산산	Hle	
(S)-호모-라이신	Hly	

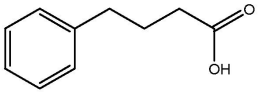
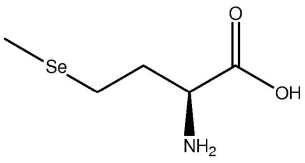
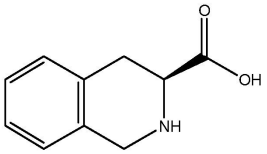
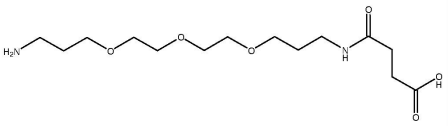
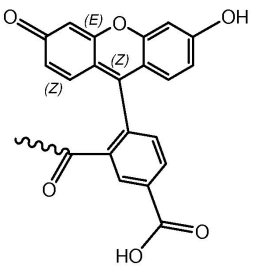
[0120]

명칭	약어	구조
(S)-노르류신	Nle	
(S)-N-메틸알라닌	Nma	
(S)-N-메틸-아스파르트산	Nmd	
(S)-N-메틸-글루탐산	Nme	
(S)-N-메틸-페닐알라닌	Nmf	
N-메틸-글라이신	Nmg	
(S)-N-메틸-라이신	Nmk	
(S)-N-메틸-류신	Nml	

[0121]

[0122]

명칭	약어	구조
(S)-N-메틸-아르기닌	Nmr	
(S)-N-메틸-세린	Nms	
(S)-N-메틸-발린	Nmv	
(S)-N-메틸-티로신	Nmy	
(S)-2-아미노-펜탄산	Nva	
(S)-2-피리딜-알라닌	Opa	
(S)-오르니틴	Orn	
L-페닐글라이신	Phg	

명칭	약어	구조
4-페닐-부티르산	PhPrCO	
폴리에틸렌 글리콜	PEG	
셀레노메티오닌	Sem	
1,2,3,4-L- 테트라히드로이소퀴놀린 카르복실산	Tic	
(13-아미노-4,7,10-트리옥사- 트리데카일)-숙신암산	Ttds	
카르복시플루오레세인	FAM	

[0123]

[0124] 본원에서 제공되는 펩티드의 아미노산 서열은 당업자가 이해할 바와 같이 전형적인 펩티드 서열 형식으로 도시된다. 예를 들어, 통상적인 아미노산의 3-문자 코드 또는 1-문자 코드, 또는 비-통상적인 아미노산에 대한 3-문자 코드 또는 약어는 펩티드 서열 내에서 명시된 위치에서 아미노산의 존재를 나타낸다. 각각의 비-통상적인 아미노산에 대한 코드는 서열 내의 다음 및/또는 선행 아미노산에 대한 코드에 하이픈 (hyphen)에 의해 연결된다. 인접한 아미노산은 화학 결합 (대개 아미드 결합)에 의해 연결된다. 화학 결합의 형성은 인접한 아미노산의 좌측에 위치할 때 아미노산 (예를 들어, Hle-인접한 아미노산)의 1-카르복실기로부터 히드록실기를 제거하고, 인접한 아미노산의 우측에 위치할 때 아미노산 (예를 들어, 인접한 아미노산-Hle)의 아미노기로부터 수소를 제거한다. 두 변형이 모두 동일한 아미노산에 적용되고, 하이픈으로 명백하게 예시하지 않으면서 아미노산 서열 내에 존재하는 인접한 통상적인 아미노산에 적용될 수 있음이 이해된다. 아미노산이 아미노산 측쇄 내에 1개 초과의 아미노 및/또는 카르복시기를 함유하는 경우에, 2- 또는 3-아미노기 및/또는 1-카르복시기가 일반적으로 펩티드 결합의 형성을 위해 사용된다. 비-통상적인 아미노산에 대해, 3-문자 코드가 사용되었고, 여기서 첫 번째 문자는 C-α-원자의 입체화학을 나타낸다. 예를 들어, 대문자 첫 번째 문자는 L-형의 아미노산이 펩티드 서열 내에 존재하는 것을 나타내는 반면, 소문자 첫 번째 문자는 D-형의 대응 아미노산이 펩티드 서열 내에 존재하는 것을 나타낸다. 1-문자 코드가 사용될 때, 소문자는 D-아미노산을 나타내는 반면, 대문자는 L-아미노산을 나타낸다. 반대로 지시하지 않는 한, 아미노산 서열은 본원에서 N-에서 C-말단 방향으로 제시한다.

[0125] 본원에 기재된 몇몇 TFPI-결합 펩티드 서열의 C-말단은 OH, NH_2, 또는 C-말단 아미노산 코드에 하이픈을 통해 연결된 구체적인 종결 아민에 대한 약어를 포함시킴으로써 명백하게 예시된다. 본원에 기재된 몇몇 펩티드의 N-말단은 수소 (유리 N-말단에 대해), 또는 N-말단 아미노산 코드에 하이픈을 통해 연결된 구체적인 종결 카르복실산 또는 다른 화학기에 대한 약어를 포함시킴으로써 명백하게 예시된다.

[0126] 본 발명은 하기 아미노산 서열을 포함하는 펩티드를 제공한다:

[0127] $X_7X_8X_9X_{10}X_{11}X_{12}X_{13}X_{14}X_{15}X_{16}X_{17}X_{18}X_{19}X_{20}X_{21}$ (서열 3109)

[0128] 여기서 (아미노산에 대한 단일 문자 코드를 이용하여),

[0129] X_7은 L, P, K, S, W, V, N, 및 Q로 이루어진 군 중에서 선택되고;

[0130] X_8은 L, R, N, F, 및 I로 이루어진 군 중에서 선택되고;

[0131] X_9는 Y, V, P, 및 C로 이루어진 군 중에서 선택되고;

[0132] X_{10}은 F, L, 및 G로 이루어진 군 중에서 선택되고;

[0133] X_{11}은 L, W, V, A, M, T, 및 S로 이루어진 군 중에서 선택되고;

[0134] X_{12}는 T, F, V, R, A, D, L, E, S, 및 Y로 이루어진 군 중에서 선택되고;

[0135] X_{13}은 I, M, G, Q, D, 및 R로 이루어진 군 중에서 선택되고;

[0136] X_{14}는 G, W, Y, L, M, 및 H로 이루어진 군 중에서 선택되고;

[0137] X_{15}는 N, P, F, H, K, 및 Y로 이루어진 군 중에서 선택되고;

[0138] X_{16}은 M, D, E, V, G, 및 K로 이루어진 군 중에서 선택되고;

[0139] X_{17}은 G, I, R, S, T, 및 L로 이루어진 군 중에서 선택되고;

[0140] X_{18}은 M, K, L, 및 I로 이루어진 군 중에서 선택되고;

[0141] X_{19}는 Y, G, R, 및 S로 이루어진 군 중에서 선택되고;

[0142] X_{20}은 A, E, S, C, 및 Y로 이루어진 군 중에서 선택되고;

[0143] X_{21}은 A, V, K, 및 E로 이루어진 군 중에서 선택된다.

[0144] 상기한 코어 구조 (X_7-X_{21})에 추가로, 구체적으로 고려되는 다른 구조는 하나 이상의 추가의 아미노산이 코어 구조에 부착된 (예를 들어, 아미노산 서열 X_7-X_{21}의 N-말단 또는 C-말단에 연결된) 구조이다. 따라서, 본 발명은 코어 구조를 포함하고 다음으로 이루어진 군 중에서 선택된 아미노산 서열을 포함하는 하나 이상의 N-말단 아미노산(들)을 추가로 포함하는 펩티드를 포함한다:

[0145] X_6,

[0146] X_5X_6,

[0147] $X_4X_5X_6$,

[0148] $X_3X_4X_5X_6$ (서열 3110),

[0149] $X_2X_3X_4X_5X_6$ (서열 3111), 및

[0150] $X_1X_2X_3X_4X_5X_6$ (서열 3112)

[0151] 여기서, X_6은 코어 구조 아미노산 서열의 X_7에 직접 연결되고,

[0152] X_1은 T 및 G로 이루어진 군 중에서 선택되고;

[0153] X_2는 F 및 V로 이루어진 군 중에서 선택되고;

[0154] X_3은 V, W, Y, 및 F로 이루어진 군 중에서 선택되고;

[0155] X_4는 D, Q, 및 S로 이루어진 군 중에서 선택되고;

[0156] X_5는 E, T, N, 및 S로 이루어진 군 중에서 선택되고;

[0157] X_6은 R, H, K, 및 A로 이루어진 군 중에서 선택된다.

[0158] 본 발명의 펩티드는 하나의 측면에서 아미노산 서열 QSKKNVFVFGYFERLRAK (서열 1)을 포함하거나 그로 이루어진다.

[0159] 또 다른 실시양태에서, 코어 구조를 포함하는 본 발명의 펩티드는 다음으로 이루어진 군 중에서 선택된 아미노산 서열을 포함하는 하나 이상의 C-말단 아미노산(들)을 포함한다:

[0160] X_{22},

[0161] $X_{22}X_{23}$,

[0162] $X_{22}X_{23}X_{24}$,

[0163] $X_{22}X_{23}X_{24}X_{25}$ (서열 3113),

[0164] $X_{22}X_{23}X_{24}X_{25}X_{26}$ (서열 3114), 및

[0165] $X_{22}X_{23}X_{24}X_{25}X_{26}X_{27}$ (서열 3115)

[0166] 여기서, X_{22}는 코어 구조 아미노산 서열의 X_{21}에 직접 연결되고,

[0167] X_{22}는 Q, I, E, W, R, L, 및 N으로 이루어진 군 중에서 선택되고;

[0168] X_{23}은 L, V, M, 및 R로 이루어진 군 중에서 선택되고;

[0169] X_{24}는 K, L, A, 및 Y로 이루어진 군 중에서 선택되고;

[0170] X_{25}는 F이고;

[0171] X_{26}은 G이고;

[0172] X_{27}은 T이다.

[0173] 하나의 측면에서, 본 발명의 펩티드는 아미노산 서열 VIVFTFRHNKLIGYERRY (서열 4)를 포함하거나 그로 이루어진다. 본 발명의 펩티드가 코어 구조의 N-말단 및 C-말단 모두에서 추가의 아미노산을 포함하는 것이 또한 고려된다. 상기 측면에서, 펩티드는 아미노산 서열 TFVDERLLYFLTIGNMGMYAAQLKF (서열 3), GVWQTHPRYFWTMWPDIKGEVIVLFGT (서열 5), KWFCGMRDMKGTMSCVWVKF (서열 6), 또는 ASFPLAVQLHVSKRSKEMA (서열 7)을 포함하거나 그로 이루어진다.

[0174] 본 발명은 아미노산 서열 $X_3X_4X_5$-F-X_7-NVF-$X_{11}X_{12}$-GY-$X_{15}X_{16}$-RLRAK-X_{22} (서열 2)를 포함하는 펩티드를 추가로 포함하고, 여기서 X_3은 Y 또는 F이고; X_4는 Q 또는 S이고; X_5는 N 또는 S이고; X_7은 K, N, 또는 Q이고; X_{11}은 V, A, S, 또는 T이고; X_{12}는 F, A, D, L, Q, S, 또는 Y이고; X_{15}는 F, K, 또는 Y이고; X_{16}은 E 또는 D이고; X_{22}는 L 또는 N이다.

[0175] 또한, 본 발명은 TFPI에 결합하는 펩티드를 제공하고, 여기서 펩티드는 하기 화학식 I의 구조를 포함한다: X1001-X1002-X1003-X1004-X1005-X1006-X1007-X1008-X1009-X1010-X1011-X1012-X1013-X1014-X1015-X1016-X1017-X1018-X1019-X1020 (I) (서열 3116). 화학식 I에서,

[0176] X1001은 Bhf, C, D, F, G, H, I, K, L, M, N, Nmf, Q, R, T, V, W 및 Y로 이루어진 군 중에서 선택되는 아미노산이고;

[0177] X1002는 G, K 및 Q로 이루어진 군 중에서 선택되는 아미노산이고;

[0178] X1003은 A, Aib, Bhs, C, D, E, F, G, H, I, K, L, M, N, P, Q, R, S, T, V, W 및 Y로 이루어진 군 중에서 선택되는 아미노산이고;

[0179] X1004는 A, Aib, Bhk, C, D, E, F, G, H, I, K, k, L, M, N, Nmk, P, Q, R, S, T, V, W 및 Y로 이루어진 군 중에서 선택되는 아미노산이고;

[0180] X1005는 a, A, Aib, Bal, C, D, d, E, F, G, H, K, k, L, M, N, Nmg, p, Q, R, S, T, V, W 및 Y로 이루어진 군 중에서 선택되는 아미노산이고;

[0181] X1006은 A, Aib, Btq, C, D, E, F, G, H, I, K, L, M, N, Q, R, S, T, V, W 및 Y로 이루어진 군 중에서 선택되는 아미노산이고;

[0182] X1007은 A, F, G, I, K, L, Nmv, P, Q, S, V, W 및 Y로 이루어진 군 중에서 선택되는 아미노산이고;

[0183] X1008은 F, H, K, W 및 Y로 이루어진 군 중에서 선택되는 아미노산이고;

[0184] X1009는 A, Aib, f, I, K, S, T 및 V로 이루어진 군 중에서 선택되는 아미노산이고;

[0185] X1010은 A, Aib, C, D, E, F, G, H, I, K, L, M, N, Nmf, P, Q, R, S, T, V, W 및 Y로 이루어진 군 중에서 선택되는 아미노산이고;

[0186] X1011은 Aib, C, K, G 및 Nmg로 이루어진 군 중에서 선택되는 아미노산이고;

[0187] X1012는 Y이고;

[0188] X1013은 A, Aib, C, E, F, G, H, K, L, M, Q, R, W 및 Y로 이루어진 군 중에서 선택되는 아미노산이고;

[0189] X1014는 A, Aib, Bhe, C, D, E, F, G, H, I, K, L, M, N, P, Q, R, S, T, V, W 및 Y로 이루어진 군 중에서 선택되는 아미노산이고;

[0190] X1015는 (오메가-메틸)-R, D, E, K 및 R로 이루어진 군 중에서 선택되는 아미노산이고;

[0191] X1016은 L이고;

[0192] X1017은 (오메가-메틸)-R, A, Aib, Bhr, C, Cha, Cit, D, Dab, Dap, E, Eag, Eew, F, G, H, Har, Hci, Hle, I, K, L, M, N, Nle, Nva, Opa, Orn, Q, R, S, T, V, W 및 Y로 이루어진 군 중에서 선택되는 아미노산이고;

[0193] X1018은 A, Bal, C, D, E, F, G, H, I, K, L, M, N, Q, R, S, T, V, W 및 Y로 이루어진 군 중에서 선택되는 아미노산이고;

[0194] X1019는 Bhk, K, R 및 V로 이루어진 군 중에서 선택되는 아미노산이다.

[0195] X1020은 화학식 I 내에서 존재하거나 부재한다 (즉, 일부 경우에, 본 발명의 펩티드는 구조 X1001-X1002-X1003-X1004-X1005-X1006-X1007-X1008-X1009-X1010-X1011-X1012-X1013-X1014-X1015-X1016-X1017-X1018-X1019-X1020 (서열 3116)을 포함한다). X1020이 존재하는 경우에는 Aib, Bhl, C, F, G, H, I, K, L, Nml, Q, R, S, T, V, W 및 Y로 이루어진 군 중에서 선택되는 아미노산이다.

[0196] 예를 들어, 본 발명의 펩티드는 화학식 I의 구조를 포함하고, 여기서 X1001은 C, F, I, K, L, Nmf, V, M, W 및 Y로 이루어진 군 중에서 선택되는 아미노산이고; X1002는 Q이고; X1003은 A, C, D, E, H, K, M, I, N, Q, R, S, T 및 V로 이루어진 군 중에서 선택되는 아미노산이고; X1004는 A, Aib, C, D, E, G, H, F, I, K, k, L, M, N, Nmk, P, Q, R, S, V, W 및 Y로 이루어진 군 중에서 선택되는 아미노산이고; X1005는 a, A, Aib, Bal, C, d, E, D, F, G, H, K, k, L, M, N, Nmg, p, Q, R, S, T 및 Y로 이루어진 군 중에서 선택되는 아미노산이고; X1006은 A, Btq, C, D, G, I, K, H, L, M, N, Q, R, S, V 및 Y로 이루어진 군 중에서 선택되는 아미노산이고; X1007은 I, K, L, Q, V 및 Y로 이루어진 군 중에서 선택되는 아미노산이고; X1008은 F, H 및 Y로 이루어진 군 중에서 선택되는 아미노산이고; X1009는 f, I 및 V로 이루어진 군 중에서 선택되는 아미노산이고; X1010은 A, D, E, F, G, H, K, L, M, N, P, Q, R, S, T, V, W 및 Y로 이루어진 군 중에서 선택되는 아미노산이고; X1011은 G 및 Nmg로 이루어진 군 중에서 선택되는 아미노산이고; X1012는 Y이고; X1013은 Aib, C, F, H, L, W 및 Y로 이루어진 군 중에서 선택되는 아미노산이고; X1014는 A, Aib, Bhe, C, D, E, H, I, K, L, M, N, Q, R, S, T, V, W 및 Y로 이루어진 군 중에서 선택되는 아미노산이고; X1015는 E 및 R로 이루어진 군 중에서 선택되는 아미노산이고; X1016은 L이고; X1017은 (오메가-메틸)-R, A, Aib, Bhr, C, Cha, Cit, Dab, Dap, Eag, Eew, F, H, Har, Hci,

Hle, I, K, L, M, N, Nle, Nva, Opa, Orn, R, S, T, V 및 Y로 이루어진 군 중에서 선택되는 아미노산이고; X1018은 A, C, D, E, F, I, K, L, M, N, Q, R, V 및 W로 이루어진 군 중에서 선택되는 아미노산이고; X1019는 K 및 R로 이루어진 군 중에서 선택되는 아미노산이고; X1020은 Aib, Bhl, F, K, L, R 및 W로 이루어진 군 중에서 선택되는 아미노산이다 (X1020이 펩티드 내에 존재할 때).

[0197] 하나의 측면에서, 본 발명의 펩티드는 화학식 I의 구조를 포함하고, 여기서 X1001은 F, L, Y 및 M으로 이루어진 군 중에서 선택되는 아미노산이고; X1002는 Q이고; X1003은 M, Q, R, S, T 및 C로 이루어진 군 중에서 선택되는 아미노산이고; X1004는 Aib, K, L, P, R, E, G, I, Y, M 및 W로 이루어진 군 중에서 선택되는 아미노산이고; X1005는 a, Aib, D, d, G, H, K, k, N, Nmg, p, Q, R, A, E, C 및 M으로 이루어진 군 중에서 선택되는 아미노산이고; X1006은 A, C, D, G, H, K, N, Q, R, S 및 M으로 이루어진 군 중에서 선택되는 아미노산이고; X1007은 I 및 V로 이루어진 군 중에서 선택되는 아미노산이고; X1008은 F, H 및 Y로 이루어진 군 중에서 선택되는 아미노산이고; X1009는 V이고; X1010은 A, D, E, K, M, N, Q, R, F, H, P, S, V, W 및 Y로 이루어진 군 중에서 선택되는 아미노산이고; X1011은 G이고; X1012는 Y이고; X1013은 C 또는 F이고; X1014는 A, C, D, E, K, L, M, N, Q, R, T, V 및 Aib로 이루어진 군 중에서 선택되는 아미노산이고; X1015는 R이고; X1016은 L이고; X1017은 A, Aib, C, Cha, Dab, Dap, Eag, Eew, H, Har, Hci, Hle, K, Nle, Nva, Opa, Orn, R, I, L, S 및 M으로 이루어진 군 중에서 선택되는 아미노산이고; X1018은 A, L, N, M 및 R로 이루어진 군 중에서 선택되는 아미노산이고; X1019는 K이고; X1020은 K 또는 L이다.

[0198] 아미노산 X1020이 화학식 I에서 부재할 때, 본 발명의 펩티드는 하나의 측면에서 화학식 I의 N-말단에서 아미노산 X1000을 추가로 포함하여, 펩티드는 다음 화학식 II의 구조를 포함하거나 그로 이루어진다: X1000-X1001-X1002-X1003-X1004-X1005-X1006-X1007-X1008-X1009-X1010-X1011-X1012-X1013-X1014-X1015-X1016-X1017-X1018-X1019 (II) (서열 3122). X1000이 펩티드 내에 존재할 때, X1000은 A, E, 및 P로 이루어진 군 중에서 선택되는 아미노산인 반면, X1001-X1019의 아미노산은 상기 규정한 바와 같다.

[0199] 추가의 측면에서, 본 발명의 TFPI-결합 펩티드는 다음 화학식 III의 구조를 포함한다: X1001-Q-X1003-X1004-X1005-X1006-I/V-X1008-V-X1010-G-Y-C/F-X1014-R-L-X1017-X1018-K-K/L (III) (서열 3117). 화학식 III 내의 X1001, X1003, X1004, X1005, X1006, X1008, X1010, X1014, X1017 및 X1018은 각각 독립적으로 임의의 아미노산으로부터 선택된다. 예를 들어, 화학식 III에서,

[0200] X1001은 임의로 Bhf, C, D, F, G, H, I, K, L, M, N, Nmf, Q, R, T, V, W 및 Y로 이루어진 군 중에서 선택되는 아미노산, 예를 들어 C, F, I, K, L, Nmf, V, M, W 및 Y로 이루어진 군 중에서 선택되는 아미노산 (예를 들어, F, L, Y 및 M으로 이루어진 군 중에서 선택되는 아미노산)이고/이거나;

[0201] X1003은 임의로 A, Aib, Bhs, C, D, E, F, G, H, I, K, L, M, N, P, Q, R, S, T, V, W 및 Y로 이루어진 군 중에서 선택되는 아미노산, 예를 들어 A, C, D, E, H, K, M, I, N, Q, R, S, T 및 V로 이루어진 군 중에서 선택되는 아미노산이고/이거나 (예를 들어, 아미노산은 M, Q, R, S, T 또는 C이다);

[0202] X1004는 임의로 A, Aib, Bhk, C, D, E, F, G, H, I, K, k, L, M, N, Nmk, P, Q, R, S, T, V, W 및 Y로 이루어진 군 중에서 선택되는 아미노산, 예를 들어 A, Aib, C, D, E, G, H, F, I, K, k, L, M, N, Nmk, P, Q, R, S, V, W 및 Y로 이루어진 군 중에서 선택되는 아미노산 (예를 들어, Aib, K, L, P, R, E, G, I, Y, M 및 W로 이루어진 군 중에서 선택되는 아미노산)이고/이거나;

[0203] X1005는 임의로 a, A, Aib, Bal, C, D, d, E, F, G, H, K, k, L, M, N, Nmg, p, Q, R, S, T, V, W 및 Y로 이루어진 군 중에서 선택되는 아미노산, 예를 들어 a, A, Aib, Bal, C, d, E, D, F, G, H, K, k, L, M, N, Nmg, p, Q, R, S, T 및 Y로 이루어진 군 중에서 선택되는 아미노산이고/이거나 (예를 들어, 아미노산은 a, Aib, D, d, G, H, K, k, N, Nmg, p, Q, R, A, E, C 또는 M이다);

[0204] X1006은 임의로 A, Aib, Btq, C, D, E, F, G, H, I, K, L, M, N, Q, R, S, T, V, W 및 Y로 이루어진 군 중에서 선택되는 아미노산, 예를 들어 A, Btq, C, D, G, I, K, H, L, M, N, Q, R, S, V 및 Y로 이루어진 군 중에서 선택되는 아미노산 (예를 들어, A, C, D, G, H, K, N, Q, R, S 및 M으로 이루어진 군 중에서 선택되는 아미노산)이고/이거나;

[0205] X1008은 임의로 F, H, K, W 및 Y로 이루어진 군 중에서 선택되는 아미노산, 예를 들어 F, H 및 Y로 이루어진 군 중에서 선택되는 아미노산이고/이거나;

[0206] X1010은 임의로 A, Aib, C, D, E, F, G, H, I, K, L, M, N, Nmf, P, Q, R, S, T, V, W 및 Y로 이루어진 군 중에서 선택되는 아미노산, 예를 들어 A, D, E, F, G, H, K, L, M, N, P, Q, R, S, T, V, W 및 Y로 이루어진 군

중에서 선택되는 아미노산 (예를 들어, A, D, E, K, M, N, Q, R, F, H, P, S, V, W 및 Y로 이루어진 군 중에서 선택되는 아미노산)이고/이거나;

[0207] X1014는 임의로 A, Aib, Bhe, C, D, E, F, G, H, I, K, L, M, N, P, Q, R, S, T, V, W 및 Y로 이루어진 군 중에서 선택되는 아미노산, 예를 들어 A, Aib, Bhe, C, D, E, H, I, K, L, M, N, Q, R, S, T, V, W 및 Y로 이루어진 군 중에서 선택되는 아미노산 (예를 들어, A, C, D, E, K, L, M, N, Q, R, T, V 또는 Aib)이고/이거나;

[0208] X1017은 임의로 (오메가-메틸)-R, A, Aib, Bhr, C, Cha, Cit, D, Dab, Dap, E, Eag, Eew, F, G, H, Har, Hci, Hle, I, K, L, M, N, Nle, Nva, Opa, Orn, Q, R, S, T, V, W 및 Y로 이루어진 군 중에서 선택되는 아미노산, 예를 들어 (오메가-메틸)-R, A, Aib, Bhr, C, Cha, Cit, Dab, Dap, Eag, Eew, F, H, Har, Hci, Hle, I, K, L, M, N, Nle, Nva, Opa, Orn, R, S, T, V 및 Y로 이루어진 군 중에서 선택되는 아미노산 (예를 들어, A, Aib, C, Cha, Dab, Dap, Eag, Eew, H, Har, Hci, Hle, K, Nle, Nva, Opa, Orn, R, I, L, S 및 M으로 이루어진 군 중에서 선택되는 아미노산)이고/이거나;

[0209] X1018은 임의로 A, Bal, C, D, E, F, G, H, I, K, L, M, N, Q, R, S, T, V, W 및 Y로 이루어진 군 중에서 선택되는 아미노산, 예를 들어 A, C, D, E, F, I, K, L, M, N, Q, R, V 및 W로 이루어진 군 중에서 선택되는 아미노산 (예를 들어, A, L, N, M 및 R로 이루어진 군 중에서 선택되는 아미노산)이다.

[0210] 일부 실시양태에서, 본 발명의 펩티드는 아미노산 서열의 N- 또는 C-말단에 부착된 하나 이상의 추가의 아미노산 잔기를 포함한다. 예를 들어, 화학식 I-III 중 임의의 하나의 구조를 포함하는 펩티드는 일부 실시양태에서 X1001에 직접 연결된 하나 이상의 N-말단 아미노산(들)을 추가로 포함하고, 여기서 N-말단 아미노산(들)은 다음으로 이루어진 군 중에서 선택된 아미노산 서열을 포함한다

[0211] X1000,

[0212] X999-X1000,

[0213] X998-X999-X1000,

[0214] X997-X998-X999-X1000 (서열 3123),

[0215] X996-X997-X998-X999-X1000 (서열 3124),

[0216] X995-X996-X997-X998-X999-X1000 (서열 3125),

[0217] X994-X995-X996-X997-X998-X999-X1000 (서열 3126),

[0218] X993-X994-X995-X996-X997-X998-X999-X1000 (서열 3127),

[0219] X992-X993-X994-X995-X996-X997-X998-X999-X1000 (서열 3128),

[0220] X991-X992-X993-X994-X995-X996-X997-X998-X999-X1000 (서열 3129), 및

[0221] X990-X991-X992-X993-X994-X995-X996-X997-X998-X999-X1000 (서열 3130).

[0222] 펩티드가 하나 이상의 N-말단 아미노산을 포함할 때, X1000은 A 또는 K이고; X999는 V 또는 K이고; X998은 Q 또는 K이고; X997은 L 또는 K이고; X996은 R 또는 K이고; X995는 G 또는 K이고; X994는 V 또는 K이고; X993은 G 또는 K이고; X992는 S 또는 K이고; X991은 K이고; X990은 K이다.

[0223] 화학식 I-III에 기재된 코어 구조에 추가로, 구체적으로 고려되는 다른 구조는 하나 이상의 추가의 아미노산이 X1020에 직접 연결된 코어 구조의 C-말단에 부착되는 구조이다. 예를 들어, C-말단 첨가는 임의로 X1021, X1021-X1022, X1021-X1022-X1023, 및 X1021-X1022-X1023-X1024 (서열 3131)로 이루어진 군 중에서 선택된 아미노산 서열을 포함하고, 여기서 X1021은 T 또는 K이고; X1022는 S 또는 K이고; X1023 및 X1024는 K이다.

[0224] 본 발명은 아미노산 서열 Ac-FQSK-Nmg-NVFVDGYFERL-Aib-AKL-NH2 (화학식 IV) (서열 164)에 적어도 60% 동일성 (예를 들어, 적어도 65%, 적어도 70%, 적어도 75%, 적어도 80%, 적어도 85%, 적어도 90%, 적어도 95% 또는 100% 동일성)을 갖는 아미노산 서열을 포함하거나 그로 이루어지는 TFPI-결합 펩티드를 추가로 포함한다. 일부 경우에, 펩티드는 본원에 설명된 바와 같이 임의의 하나의 화학식 I-III의 아미노산 서열을 포함하거나 그로 이루어진다. 본 발명은 서열 8-978로 이루어진 군 중에서 선택된 아미노산 서열을 포함하거나 그로 이루어지는 펩티드 (예를 들어, 서열 8-741 및 962-972 (예를 들어, 서열 8-741, 962-968, 971, 또는 972)로 이루어진 군 중에서 선택된 및/또는 서열 742-961 (예를 들어 서열 744-961)로 이루어진 군 중에서 선택된 및/또는 서열

973-978로 이루어진 군 중에서 선택된 아미노산 서열을 포함하거나 그로 이루어지는 펩티드)를 또한 포함한다.

[0225] 본 발명의 펩티드는 일부 경우에 분자내 디술피드 결합을 포함한다. 이와 관련하여, 화학식 I-III의 구조를 포함하는 펩티드는 시스테인들이 분자내 디술피드 결합을 형성하도록 적어도 3개의 아미노산 잔기에 의해 이격되어 있는 적어도 2개의 시스테인 잔기를 함유한다 (예를 들어, 펩티드는 2개의 시스테인 잔기를 함유한다). 일부 경우에, 시스테인들은 3개 초과의 아미노산 잔기에 의해 이격되어 있다. 예를 들어, 화학식 I, II, 또는 III의 구조를 포함하는 펩티드에서, X1000, X1001, X1003, X1004, X1005, X1006, X1010, X1011, X1013, X1014, X1017, X1018, X1020 및 X1021 중 임의의 2개는 임의로 디술피드 다리를 형성할 수 있는 시스테인이다. 따라서, 일부 측면에서, 펩티드는 2개의 시스테인 잔기를 함유하고, X1000, X1005, X1010 및 X1014 중 하나는 시스테인이고, X1006, X1010, X1017 및 X1021 중 하나는 시스테인이다. 본 발명에서는 시스테인 쌍의 모든 가능한 조합을 고려하고, 예를 들어, X1000 및 X1006은 C이거나; X1000 및 X1010은 C이거나; X1000 및 X1017은 C이거나; X1005 및 X1017은 C이거나; X1010 및 X1017은 C이거나; X1010 및 X1021은 C이거나; X1014 및 X1021은 C이다.

[0226] 본 발명은 TFPI에 결합하는 펩티드를 추가로 제공하고, 상기 펩티드는 다음 화학식 V의 구조를 포함한다: X2001-X2002-X2003-X2004-X2005-X2006-[X2007-X2008-X2009-X2010-X2011-X2012-X2013-X2014-X2015-X2016-X2017-X2018]-X2019-X2020-X2021-X2022-X2023 (V) (서열 3118). 여기서 펩티드는 X2007과 X2018 사이의 연결 (화학식 V 내에 괄호로서 나타냄), 예를 들어, 디술피드 결합에 의해 생성된 고리 구조체를 형성한다. 화학식 V에서, X2001, X2002, 및 X2023은 독립적으로 존재하거나 부재한다. 존재할 때, X2001은 A, D, E, F, G, H, I, K, L, P, R, S, T, V 및 W로 이루어진 군 중에서 선택되는 아미노산이고; X2002는 A, D, E, F, G, H, I, K, L, M, P, R, S, T, V 및 W로 이루어진 군 중에서 선택되는 아미노산이고, X2023은 A, D, E, F, G, I, K, L, R, S, T, V, W 및 Y로 이루어진 군 중에서 선택되는 아미노산이다. 또한, X2003은 A, F, I, K, L, R, S, T, V, W 및 Y로 이루어진 군 중에서 선택되는 아미노산이고;

[0227] X2004는 A, D, E, F, G, I, K, L, R, S, T, V 및 W로 이루어진 군 중에서 선택되는 아미노산이고;

[0228] X2005는 W이고;

[0229] X2006은 F, H, I, K, L, R, V 및 W로 이루어진 군 중에서 선택되는 아미노산이고;

[0230] X2007은 C, Hcy, Dap 및 K로 이루어진 군 중에서 선택되는 아미노산 (예를 들어, C 또는 Hcy)이고;

[0231] X2008은 A, G, R, S 및 T로 이루어진 군 중에서 선택되는 아미노산이고;

[0232] X2009는 a, A, I, K, L, M, m, Nle, p, R, Sem, 및 V로 이루어진 군 중에서 선택되는 아미노산이고;

[0233] X2010은 A, G, I, K, L, P, R, S, T 및 V로 이루어진 군 중에서 선택되는 아미노산이고;

[0234] X2011은 D, E, G, S 및 T로 이루어진 군 중에서 선택되는 아미노산이고;

[0235] X2012는 A, a, D, d, E, e, F, f, G, I, K, k, L, l, M, m, Nle, nle, P, p, R, r, S, s, Sem, T, t, V, v, W 및 w로 이루어진 군 중에서 선택되는 아미노산이고;

[0236] X2013은 A, D, d, E, e, F, G, I, K, L, R, S, s, T, V 및 W로 이루어진 군 중에서 선택되는 아미노산이고;

[0237] X2014는 A, D, E, F, G, I, K, L, M, R, S, T, V 및 W로 이루어진 군 중에서 선택되는 아미노산이고;

[0238] X2015는 A, D, E, F, G, I, K, L, M, Nle, R, S, T, V 및 W로 이루어진 군 중에서 선택되는 아미노산이고;

[0239] X2016은 A, D, E, F, I, K, L, M, Nle, R, S, Sem, T, V, W 및 Y로 이루어진 군 중에서 선택되는 아미노산이고;

[0240] X2017은 A, D, E, F, G, I, K, L, R, S, T, V, W 및 Y로 이루어진 군 중에서 선택되는 아미노산이고;

[0241] X2018은 C 및 D로 이루어진 군 중에서 선택되는 아미노산이고 (예를 들어, X2018은 C이다);

[0242] X2019는 A, F, I, L, S, T, V 및 W로 이루어진 군 중에서 선택되는 아미노산이고;

[0243] X2020은 F 및 W로 이루어진 군 중에서 선택되는 아미노산이고;

[0244] X2021은 I, L 및 V로 이루어진 군 중에서 선택되는 아미노산이고;

[0245] X2022는 A, D, E, F, G, I, K, L, P, R, S, T, V, 및 W로 이루어진 군 중에서 선택되는 아미노산이다.

[0246] 일부 경우에, 화학식 V의 구조를 포함하는 본 발명의 펩티드에서,

[0247] X2001은 임의로 A, D, F, G, H, K, L, P 및 S로 이루어진 군 중에서 선택되는 아미노산, 예를 들어 A, D, F, G, H, K, L 및 S로 이루어진 군 중에서 선택되는 아미노산이고 (X2001이 존재할 때);

[0248] X2002는 임의로 A, D, F, G, H, K, L, P, R 및 S로 이루어진 군 중에서 선택되는 아미노산, 예를 들어 A, F, H, K, L, M, R 및 S로 이루어진 군 중에서 선택되는 아미노산 (예를 들어, H, F, M 또는 R)이고 (X2002이 존재할 때);

[0249] X2003은 임의로 A, F, K, L, S 및 Y로 이루어진 군 중에서 선택되는 아미노산, 예를 들어 F, S 및 Y로 이루어진 군 중에서 선택되는 아미노산 (예를 들어, F 또는 Y)이고;

[0250] X2004는 임의로 A, D, F, G, K, L 및 S로 이루어진 군 중에서 선택되는 아미노산 (예를 들어, K)이고;

[0251] X2005는 임의로 W이고;

[0252] X2006은 임의로 F, H, K 및 L로 이루어진 군 중에서 선택되는 아미노산 (예를 들어, F 또는 H)이고;

[0253] X2007은 임의로 C 및 HcY로 이루어진 군 중에서 선택되는 아미노산이고 (예를 들어, X2007은 C이고);

[0254] X2008은 임의로 A, G 및 S로 이루어진 군 중에서 선택되는 아미노산이고;

[0255] X2009는 임의로 a, A, K, L, V, M, m, Nle, Sem, 및 p로 이루어진 군 중에서 선택되는 아미노산, 예를 들어 M, Nle, p 및 V로 이루어진 군 중에서 선택되는 아미노산 (예를 들어, M, Sem, 또는 V)이고;

[0256] X2010은 임의로 A, G, K, L, P, R 및 S로 이루어진 군 중에서 선택되는 아미노산, 예를 들어 A, K, L, P, R 및 S로 이루어진 군 중에서 선택되는 아미노산 (예를 들어, K, P, 또는 R)이고;

[0257] X2011은 임의로 D, G 및 S로 이루어진 군 중에서 선택되는 아미노산 (예를 들어, D 또는 S)이고;

[0258] X2012는 임의로 A, a, D, d, F, f, G, K, k, L, l, M, m, Nle, P, S 및 s로 이루어진 군 중에서 선택되는 아미노산, 예를 들어 D, d, F, f, G, K, k, L, l, M, Nle, P, S, 및 Sem으로 이루어진 군 중에서 선택되는 아미노산 (예를 들어, F, L, l, Sem, 및 M으로 이루어진 군 중에서 선택되는 아미노산)이고;

[0259] X2013은 임의로 A, D, d, F, G, K, L, S 및 s로 이루어진 군 중에서 선택되는 아미노산, 예를 들어 A, D, F, G, K, L 및 S로 이루어진 군 중에서 선택되는 아미노산 (예를 들어, D, G, K, 또는 S)이고;

[0260] X2014는 임의로 D, F, G, K, L 및 S로 이루어진 군 중에서 선택되는 아미노산 (예를 들어, D 또는 G)이고;

[0261] X2015는 임의로 A, D, F, G, I, K, L, M, Nle, S 및 T로 이루어진 군 중에서 선택되는 아미노산 (예를 들어, I 또는 T)이고;

[0262] X2016은 임의로 D, F, K, L, M, Nle, S, 및 Y로 이루어진 군 중에서 선택되는 아미노산, 예를 들어 D, F, K, L, M, Nle, S, Sem, 및 Y로 이루어진 군 중에서 선택되는 아미노산 (예를 들어, D, F, M, Sem, 또는 Y)이고;

[0263] X2017은 임의로 A, D, F, G, K, L, S, T 및 Y로 이루어진 군 중에서 선택되는 아미노산 (예를 들어, S 또는 T)이고;

[0264] X2018은 임의로 C이고;

[0265] X2019는 임의로 A, F, L, S 및 V로 이루어진 군 중에서 선택되는 아미노산 (예를 들어, A 또는 V)이고;

[0266] X2020은 임의로 F 및 W로 이루어진 군 중에서 선택되는 아미노산 (예를 들어, W)이고;

[0267] X2021은 임의로 L 및 V로 이루어진 군 중에서 선택되는 아미노산 (예를 들어, V)이고;

[0268] X2022는 임의로 A, D, F, G, K, L, P, R, S 및 W로 이루어진 군 중에서 선택되는 아미노산, 예를 들어 A, F, G, K, L, P, R, S 및 W로 이루어진 군 중에서 선택되는 아미노산 (예를 들어, F, L, K, R, P 및 W로 이루어진 군 중에서 선택되는 아미노산)이고;

[0269] X2023은 임의로 A, D, F, G, K, L, M, S 및 Y로 이루어진 군 중에서 선택되는 아미노산, 예를 들어 A, D, F, G, L, M, S 및 Y로 이루어진 군 중에서 선택되는 아미노산 (예를 들어, A, D, F, M, S 및 Y로 이루어진 군 중에서 선택되는 아미노산 서열)이다 (X2023이 존재할 때).

[0270] 본 발명은 TFPI에 결합하는 펩티드를 추가로 포함하고, 여기서 펩티드는 다음 화학식 VI의 구조를 포함한다:

X2001-X2002-F/Y-K-W-F/H-[C-X2008-M/V-X2010-D-X2012-X2013-G-I/T-X2016-S/T-C]-A/V-W-V-X2022-X2023 (VI) (서열 3119). 화학식 VI의 구조를 포함하는 펩티드에서, X2001, X2002 및 X2023은 각각 독립적으로 존재하거나 부재한다. X2001, X2002, 및/또는 X2023이 존재하는 경우에, X2001, X2002 및 X2023 중 임의의 것은 임의의 아미노산으로부터 독립적으로 선택된다. 또한, X2008, X2010, X2012, X2013, X2016, 및 X2022는 각각 독립적으로 임의의 아미노산으로부터 선택된다.

[0271] 일부 측면에서, 화학식 VI의 펩티드에서,

[0272] X2001은 임의로 A, D, E, F, G, H, I, K, L, P, R, S, T, V 및 W로 이루어진 군 중에서 선택되는 아미노산, 예를 들어 A, D, F, G, H, K, L, P 및 S로 이루어진 군 중에서 선택되는 아미노산 (예를 들어, A, D, F, G, H, K, L 및 S로 이루어진 군 중에서 선택되는 아미노산)이고/이거나 (X2001이 존재할 때);

[0273] X2002는 임의로 A, D, E, F, G, H, I, K, L, M, P, R, S, T, V 및 W로 이루어진 군 중에서 선택되는 아미노산, 예를 들어 A, D, F, G, H, K, L, M, P, R 및 S로 이루어진 군 중에서 선택되는 아미노산 (예를 들어, A, F, H, K, L, M, R 및 S로 이루어진 군 중에서 선택되는 아미노산, 예를 들어 H, F, M, 또는 R)이고/이거나 (X2002이 존재할 때);

[0274] X2008은 임의로 A, G, R, S 및 T로 이루어진 군 중에서 선택되는 아미노산, 예를 들어 A, G 및 S로 이루어진 군 중에서 선택되는 아미노산이고/이거나;

[0275] X2010은 임의로 A, G, I, K, L, P, R, S, T 및 V로 이루어진 군 중에서 선택되는 아미노산, 예를 들어 A, G, K, L, P, R 및 S로 이루어진 군 중에서 선택되는 아미노산 (예를 들어, A, K, L, P, R 및 S로 이루어진 군 중에서 선택되는 아미노산, 예를 들어 K, P 또는 R)이고/이거나;

[0276] X2012는 임의로 A, a, D, d, E, e, F, f, G, I, I, K, k, L, l, M, m, Nle, nle, P, p, R, r, S, s, Sem, T, t, V, v, W 및 w로 이루어진 군 중에서 선택되는 아미노산, 예를 들어 A, a, D, d, F, f, G, K, k, L, l, M, m, Nle, P, S, s, 및 Sem으로 이루어진 군 중에서 선택되는 아미노산 (예를 들어, D, d, F, f, G, K, k, L, l, M, Nle, P, S, 및 Sem으로 이루어진 군 중에서 선택되는 아미노산, 예를 들어 F, L, l, Sem, 또는 M)이고/이거나;

[0277] X2013은 임의로 A, D, d, E, e, F, G, I, K, L, R, S, s, T, V 및 W로 이루어진 군 중에서 선택되는 아미노산, 예를 들어 A, D, d, F, G, K, L, S 및 s로 이루어진 군 중에서 선택되는 아미노산 (예를 들어, A, D, F, G, K, L 및 S로 이루어진 군 중에서 선택되는 아미노산, 예를 들어 D, G, K 또는 S)이고/이거나;

[0278] X2016은 임의로 A, D, E, F, I, K, L, M, Nle, R, S, Sem, T, V, W 및 Y로 이루어진 군 중에서 선택되는 아미노산, 예를 들어 D, F, K, L, M, Nle, S Sem, 및 Y로 이루어진 군 중에서 선택되는 아미노산 (예를 들어, D, F, K, L, M, Nle, S, Sem으로 이루어진 군 중에서 선택되는 아미노산, 예를 들어 F, Sem, 또는 M)이고/이거나;

[0279] X2022는 임의로 A, D, E, F, G, I, K, L, P, R, S, T, V, 및 W로 이루어진 군 중에서 선택되는 아미노산, 예를 들어 A, D, F, G, K, L, P, R, S 및 W로 이루어진 군 중에서 선택되는 아미노산 (예를 들어, A, F, G, K, L, P, R, S 및 W로 이루어진 군 중에서 선택되는 아미노산, 예를 들어 F, L, K, R, P 또는 W)이고/이거나;

[0280] X2023은 임의로 A, D, E, F, G, I, K, L, R, M, S, T, V, W 및 Y로 이루어진 군 중에서 선택되는 아미노산, 예를 들어 A, D, F, G, K, L, M, S 및 Y로 이루어진 군 중에서 선택되는 아미노산 (예를 들어, A, D, F, G, L, M, S 및 Y로 이루어진 군 중에서 선택되는 아미노산, 예를 들어 A, D, F, M, S 또는 Y)이다 (X2023이 존재할 때).

[0281] 본 발명의 TFPI-결합 펩티드는 하나의 측면에서, 다음 화학식 VII의 서열에 적어도 60% 동일성 (예를 들어, 적어도 60%, 적어도 65%, 적어도 70%, 적어도 75%, 적어도 80%, 적어도 85%, 적어도 90%, 적어도 95% 또는 100% 동일성)을 갖는 아미노산 서열을 포함한다: Ac-FYYKWH[CGMRDMKGTMSC]AWVKF-NH2 (VII) (서열 1040). 임의로, 펩티드는 본원에 규정된 바와 같은 화학식 V-VII의 아미노산 서열을 포함하거나 그로 이루어진다. 본 발명은 서열 1001-1293으로 이루어진 군 중에서 선택된 아미노산 서열을 포함하거나 그로 이루어지는 펩티드 (예를 들어, 서열 1001-1212 및 1290-1291 (예를 들어 서열 1001-120, 1290, 또는 1291)로 이루어진 군 중에서 선택된 및/또는 서열 1213-1289로 이루어진 군 중에서 선택된 및/또는 서열 1292 및 1293으로 이루어진 군 중에서 선택된 아미노산 서열을 포함하거나 그로 이루어지는 펩티드)를 또한 포함한다.

[0282] 본 발명은 다음 화학식 VIII의 구조를 포함하는 TFPI-결합 펩티드를 추가로 제공한다: X3001-X3002-X3003-X3004-X3005-X3006-X3007-X3008-X3009-X3010-X3011-X3012-X3013-X3014-X3015-X3016-X3017-X3018-X3019-X3020-

X3021 (VIII) (서열 3120). 화학식 VIII에서, X3001 및 X3002는 독립적으로 펩티드 내에 존재하거나 부재한다. 존재하는 경우에, X3001은 A, C, D, F, G, I, K, L, M, N, P, Q, R, S, T, W, E, H 및 Y로 이루어진 군 중에서 선택되는 아미노산이고; X3002는 A, C, D, F, H, K, M, N, P, R, S, T, W, Y, G, I 및 L로 이루어진 군 중에서 선택되는 아미노산이다. 또한, X3003은 A, C, D, E, F, G, H, I, K, L, M, N, P, Q, R, S, T, W 및 Y로 이루어진 군 중에서 선택되는 아미노산이고;

[0283] X3004는 A, C, D, E, F, G, H, I, K, L, M, N, Q, R, S, T, V, W, Y 및 P로 이루어진 군 중에서 선택되는 아미노산이고;

[0284] X3005는 C, D, F, G, H, I, K, L, M, N, P, R, S, T, V, W 및 Y로 이루어진 군 중에서 선택되는 아미노산이고;

[0285] X3006은 A, W, C, K, P, R 및 H로 이루어진 군 중에서 선택되는 아미노산이고;

[0286] X3007은 Q, A, C, F, G, H, I, K, L, N, R, S, T, W 및 Y로 이루어진 군 중에서 선택되는 아미노산이고;

[0287] X3008은 A, C, F, G, H, K, L, M, N, P, Q, R, S, T, V, W, Y 및 I로 이루어진 군 중에서 선택되는 아미노산이고;

[0288] X3009는 A, C, F, G, H, I, L, M, R, S, T, V, W, Y 및 K로 이루어진 군 중에서 선택되는 아미노산이고;

[0289] X3010은 A, C, F, G, H, I, K, L, M, N, P, Q, R, S, T, V, W 및 Y로 이루어진 군 중에서 선택되는 아미노산이고;

[0290] X3011은 A, G, I, K, L, M, N, Q, R, S, T, V, W, Y, C, F 및 H로 이루어진 군 중에서 선택되는 아미노산이고;

[0291] X3012는 A, C, H, I, K, L 및 R로 이루어진 군 중에서 선택되는 아미노산이고;

[0292] X3013은 A, C, F, G, H, K, L, M, R, S, V, W, Y 및 I로 이루어진 군 중에서 선택되는 아미노산이고;

[0293] X3014는 A, C, F, G, H, I, L, M, N, Q, R, S, T, V, W, Y 및 K로 이루어진 군 중에서 선택되는 아미노산이고;

[0294] X3015는 A, K 및 R로 이루어진 군 중에서 선택되는 아미노산이고;

[0295] X3016은 A, F, K 및 R로 이루어진 군 중에서 선택되는 아미노산이고;

[0296] X3017은 A, C, F, G, I, K, L, N, Q, R, S, T, V, W, Y, H, A 및 M으로 이루어진 군 중에서 선택되는 아미노산이고;

[0297] X3018은 A, C, F, I, K, L, M, Q, R, V, W 및 Y로 이루어진 군 중에서 선택되는 아미노산이고;

[0298] X3019는 A, C, D, E, F, G, H, K, L, N, P, Q, R, V, W, Y 및 I로 이루어진 군 중에서 선택되는 아미노산이고;

[0299] X3020은 A, C, F, G, H, K, L, M, N, Q, R, V, W, Y, I 및 P로 이루어진 군 중에서 선택되는 아미노산이고;

[0300] X3021은 A, C, H, I, K, L, M, N, P, Q, R, T, V, W, Y, F 및 G로 이루어진 군 중에서 선택되는 아미노산이다.

[0301] 본 발명의 일부 측면에서, 펩티드는 화학식 VIII의 서열을 포함하고, 여기서

[0302] X3001은 임의로 A, C, D, G, I, K, L, M, N, P, Q, R, S, T, W, E, H 및 Y로 이루어진 군 중에서 선택되는 아미노산, 예를 들어 A, C, D, G, K, L, M, N, P, R, S, T, E, H 및 Y로 이루어진 군 중에서 선택되는 아미노산이고 (X3001이 존재할 때);

[0303] X3002는 C, F, H, K, R, S, W, Y, G, I 및 L로 이루어진 군 중에서 선택되는 아미노산, 예를 들어 C, K, R, W, Y, G, I 및 L로 이루어진 군 중에서 선택되는 아미노산이고 (X3002가 존재할 때);

[0304] X3003은 임의로 A, C, D, F, G, H, I, K, L, M, N, P, Q, R, S, T 및 W로 이루어진 군 중에서 선택되는 아미노산, 예를 들어 A, C, G, H, I, K, L, M, R, S, T 및 W로 이루어진 군 중에서 선택되는 아미노산이고;

[0305] X3004는 임의로 A, C, D, G, H, I, K, L, M, N, R, S, T, V 및 P로 이루어진 군 중에서 선택되는 아미노산, 예를 들어 A, C, G, H, I, K, L, M, N, R, S, T 및 P로 이루어진 군 중에서 선택되는 아미노산이고;

[0306] X3005는 임의로 C, F, H, I, K, M, R, T, W 및 Y로 이루어진 군 중에서 선택되는 아미노산, 예를 들어 C, F, H, K, R 및 W로 이루어진 군 중에서 선택되는 아미노산이고;

[0307] X3006은 임의로 P, H 및 A로 이루어진 군 중에서 선택되는 아미노산이고;

[0308] X3007은 임의로 C, G, R, W, A 및 L로 이루어진 군 중에서 선택되는 아미노산, 예를 들어 L, C, R 및 W로 이루어진 군 중에서 선택되는 아미노산이고;

[0309] X3008은 임의로 A, C, F, G, H, K, L, M, N, Q, R, T, V, W, Y 및 I로 이루어진 군 중에서 선택되는 아미노산, 예를 들어 A, C, F, H, K, R, V, W, Y 및 I로 이루어진 군 중에서 선택되는 아미노산이고;

[0310] X3009는 임의로 C, I, R, V 및 K로 이루어진 군 중에서 선택되는 아미노산, 예를 들어 C, R, V 및 K로 이루어진 군 중에서 선택되는 아미노산이고;

[0311] X3010은 임의로 A, C, G, H, I, K, L, M, Q, R, S 및 T로 이루어진 군 중에서 선택되는 아미노산, 예를 들어 A, C, K, L, Q, R 및 S로 이루어진 군 중에서 선택되는 아미노산이고;

[0312] X3011은 임의로 A, I, K, L, M, R, S, V, W, C, F 및 H로 이루어진 군 중에서 선택되는 아미노산, 예를 들어 I, K, L, M, R, V, W, C, F 및 H로 이루어진 군 중에서 선택되는 아미노산이고;

[0313] X3012는 임의로 H 및 R로 이루어진 군 중에서 선택되는 아미노산 (예를 들어, H)이고;

[0314] X3013은 임의로 C, F, K, L, M, R, V 및 I로 이루어진 군 중에서 선택되는 아미노산, 예를 들어 C, K, R, V 및 I로 이루어진 군 중에서 선택되는 아미노산이고;

[0315] X3014는 임의로 A, M, C, F, H, I, L, N, R, S, V, W 및 K로 이루어진 군 중에서 선택되는 아미노산, 예를 들어 A, S, C, F, H, I, R 및 K로 이루어진 군 중에서 선택되는 아미노산이고;

[0316] X3015는 임의로 K 또는 R이고;

[0317] X3016은 임의로 K 또는 R이고;

[0318] X3017은 임의로 A, C, F, G, I, K, L, N, Q, R, S, T, V, W, H, A 및 M으로 이루어진 군 중에서 선택되는 아미노산, 예를 들어 C, G, I, K, L, N, Q, R, S, T, V, H, A 및 M으로 이루어진 군 중에서 선택되는 아미노산이고;

[0319] X3018은 임의로 A, K, C, I, L, R 및 W로 이루어진 군 중에서 선택되는 아미노산 (예를 들어, K, C, I, R, 또는 W)이고;

[0320] X3019는 임의로 A, C, E, H, K, N, Q, R 및 I로 이루어진 군 중에서 선택되는 아미노산, 예를 들어 C, E, H, K, R 및 I로 이루어진 군 중에서 선택되는 아미노산이고;

[0321] X3020은 임의로 C, H, L, M, R, V, I 및 P로 이루어진 군 중에서 선택되는 아미노산 (예를 들어, C, M, I, 또는 P)이고;

[0322] X3021은 임의로 A, C, H, I, K, L, M, N, Q, R, V, W, Y, F 및 G로 이루어진 군 중에서 선택되는 아미노산, 예를 들어 A, C, H, I, K, L, M, N, Q, R, V, W, F 및 G로 이루어진 군 중에서 선택되는 아미노산이다.

[0323] 본 발명은 TFPI에 결합하고 다음 화학식 IX의 구조를 포함하는 펩티드를 추가로 제공한다: X3001-X3002-X3003-X3004-X3005-X3006-X3007-X3008-X3009-X3010-X3011-H-X3013-X3014-K/R-R-X3017-X3018-X3019-X3020-X3021 (IX) (서열 3121). 화학식 IX에서, X3001 및 X3002는 독립적으로 펩티드 내에 존재하거나 부재한다. 존재하는 경우에, X3001 및/또는 X3002는 독립적으로 임의의 아미노산으로부터 선택된다. 마찬가지로, X3003, X3004, X3005, X3006, X3007, X3008, X3009, X3010, X3011, X3013, X3014, X3017, X3018, X3019, X3020 및 X3021은 각각 독립적으로 임의의 아미노산으로부터 선택된다. 존재할 때, X3001은 임의로 A, C, D, F, G, I, K, L, M, N, P, Q, R, S, T, W, E, H 및 Y로 이루어진 군 중에서 선택되는 아미노산, 예를 들어 A, C, D, G, I, K, L, M, N, P, Q, R, S, T, W, E, H 및 Y로 이루어진 군 중에서 선택되는 아미노산 (예를 들어, A, C, D, G, K, L, M, N, P, R, S, T, E, H 및 Y로 이루어진 군 중에서 선택되는 아미노산)이다. 마찬가지로, 존재할 때, X3002는 임의로 A, C, D, F, H, K, M, N, P, R, S, T, W, Y, G, I 및 L로 이루어진 군 중에서 선택되는 아미노산, 예를 들어 C, F, H, K, R, S, W, Y, G, I 및 L로 이루어진 군 중에서 선택되는 아미노산 (예를 들어, C, K, R, W, Y, G, I 및 L로 이루어진 군 중에서 선택되는 아미노산)이다. 또한 화학식 IX에 관하여,

[0324] X3003은 임의로 A, C, D, E, F, G, H, I, K, L, M, N, P, Q, R, S, T, W, 및 Y로 이루어진 군 중에서 선택되는 아미노산, 예를 들어 A, C, D, F, G, H, I, K, L, M, N, P, Q, R, S, T 및 W로 이루어진 군 중에서 선택되는 아미노산 (예를 들어, A, C, G, H, I, K, L, M, R, S, T 및 W로 이루어진 군 중에서 선택되는 아미노산)이고/이거나;

[0325] X3004는 임의로 A, C, D, E, F, G, H, I, K, L, M, N, Q, R, S, T, V, W, Y 및 P로 이루어진 군 중에서 선택되는 아미노산, 예를 들어 A, C, D, G, H, I, K, L, M, N, R, S, T, V 및 P로 이루어진 군 중에서 선택되는 아미노산 (예를 들어, A, C, G, H, I, K, L, M, N, R, S, T 및 P로 이루어진 군 중에서 선택되는 아미노산)이고/이거나;

[0326] X3005는 임의로 C, D, F, G, H, I, K, L, M, N, P, R, S, T, V, W 및 Y로 이루어진 군 중에서 선택되는 아미노산, 예를 들어 C, F, H, I, K, M, R, T, W 및 Y로 이루어진 군 중에서 선택되는 아미노산 (예를 들어, C, F, H, K, R 및 W로 이루어진 군 중에서 선택되는 아미노산)이고/이거나;

[0327] X3006은 임의로 A, W, C, K, P, R 및 H로 이루어진 군 중에서 선택되는 아미노산, 예를 들어 P, H 및 A로 이루어진 군 중에서 선택되는 아미노산이고/이거나;

[0328] X3007은 임의로 Q, A, C, F, G, H, I, K, L, N, R, S, T, W 및 Y로 이루어진 군 중에서 선택되는 아미노산, 예를 들어 C, G, R, W, A 및 L로 이루어진 군 중에서 선택되는 아미노산 (예를 들어, L, C, R 또는 W)이고/이거나;

[0329] X3008은 임의로 A, C, F, G, H, K, L, M, N, P, Q, R, S, T, V, W, Y 및 I로 이루어진 군 중에서 선택되는 아미노산, 예를 들어 A, C, F, G, H, K, L, M, N, Q, R, T, V, W, Y 및 I로 이루어진 군 중에서 선택되는 아미노산 (예를 들어, A, C, F, H, K, R, V, W, Y 및 I로 이루어진 군 중에서 선택되는 아미노산)이고/이거나;

[0330] X3009는 임의로 A, C, F, G, H, I, L, M, R, S, T, V, W, Y 및 K로 이루어진 군 중에서 선택되는 아미노산, 예를 들어 C, I, R, V 및 K로 이루어진 군 중에서 선택되는 아미노산 (예를 들어, C, R, V 또는 K)이고/이거나;

[0331] X3010은 임의로 A, C, F, G, H, I, K, L, M, N, P, Q, R, S, T, V, W 및 Y로 이루어진 군 중에서 선택되는 아미노산, 예를 들어 A, C, G, H, I, K, L, M, Q, R, S 및 T로 이루어진 군 중에서 선택되는 아미노산 (예를 들어, A, C, K, L, Q, R 및 S로 이루어진 군 중에서 선택되는 아미노산)이고/이거나;

[0332] X3011은 임의로 A, G, I, K, L, M, N, Q, R, S, T, V, W, Y, C, F 및 H로 이루어진 군 중에서 선택되는 아미노산, 예를 들어 A, I, K, L, M, R, S, V, W, C, F 및 H로 이루어진 군 중에서 선택되는 아미노산 (예를 들어, I, K, L, M, R, V, W, C, F 및 H로 이루어진 군 중에서 선택되는 아미노산)이고/이거나;

[0333] X3013은 임의로 A, C, F, G, H, K, L, M, R, S, V, W, Y 및 I로 이루어진 군 중에서 선택되는 아미노산, 예를 들어 C, F, K, L, M, R, V, 및 I로 이루어진 군 중에서 선택되는 아미노산 (예를 들어, C, K, R, V, 또는 I)이고/이거나;

[0334] X3014는 임의로 A, C, F, G, H, I, L, M, N, Q, R, S, T, V, W, Y 및 K로 이루어진 군 중에서 선택되는 아미노산, 예를 들어 A, M, C, F, H, I, L, N, R, S, V, W 및 K로 이루어진 군 중에서 선택되는 아미노산 (예를 들어, A, S, C, F, H, I, R 및 K로 이루어진 군 중에서 선택되는 아미노산)이고/이거나;

[0335] X3017은 임의로 A, C, F, G, I, K, L, N, Q, R, S, T, V, W, Y, H, A 및 M으로 이루어진 군 중에서 선택되는 아미노산, 예를 들어 A, C, F, G, I, K, L, N, Q, R, S, T, V, W, H, A 및 M으로 이루어진 군 중에서 선택되는 아미노산 (예를 들어, C, G, I, K, L, N, Q, R, S, T, V, H, A 및 M으로 이루어진 군 중에서 선택되는 아미노산)이고/이거나;

[0336] X3018은 임의로 A, C, F, I, K, L, M, Q, R, V, W 및 Y로 이루어진 군 중에서 선택되는 아미노산, 예를 들어 A, K, C, I, L, R 및 W로 이루어진 군 중에서 선택되는 아미노산 (예를 들어, K, C, I, R, 또는 W)이고/이거나;

[0337] X3019는 임의로 A, C, D, E, F, G, H, K, L, N, P, Q, R, V, W, Y 및 I로 이루어진 군 중에서 선택되는 아미노산, 예를 들어 A, C, E, H, K, N, Q, R 및 I로 이루어진 군 중에서 선택되는 아미노산 (예를 들어, C, E, H, K, R, 또는 I)이고/이거나;

[0338] X3020은 임의로 A, C, F, G, H, K, L, M, N, Q, R, V, W, Y, I 및 P로 이루어진 군 중에서 선택되는 아미노산, 예를 들어 C, H, L, M, R, V, I 및 P로 이루어진 군 중에서 선택되는 아미노산 (예를 들어, C, M, I, 또는 P)이고/이거나;

[0339] X3021은 임의로 A, C, H, I, K, L, M, N, P, Q, R, T, V, W, Y, F 및 G로 이루어진 군 중에서 선택되는 아미노산, 예를 들어 A, C, H, I, K, L, M, N, Q, R, V, W, Y, F 및 G로 이루어진 군 중에서 선택되는 아미노산 (예

를 들어, A, C, H, I, K, L, M, N, Q, R, V, W, F 및 G로 이루어진 군 중에서 선택되는 아미노산)이다.

[0340] 본 발명의 TFPI-결합 펩티드는 일부 측면에서, 다음 화학식 X의 서열에 적어도 60% 동일성 (예를 들어, 적어도 65%, 적어도 70%, 적어도 75%, 적어도 80%, 적어도 85%, 적어도 90%, 적어도 95% 또는 100% 동일성)을 갖는 아미노산 서열을 포함한다: Ac-GYASFPWFVQLHVHKRSWEMA-NH2 (X) (서열 223). 임의로, 펩티드는 본원에서 규정되는 화학식 VIII-IX의 아미노산 서열을 포함하거나 그로 이루어진다. 본원에서 사용될 때, "적어도 60% 동일성" 및 유사한 용어는 예를 들어, 60% 내지 100%로부터의 임의의 정수, 예를 들어 60%, 61%, 62% 등을 포함한다. 또한, 용어 "적어도 [%] 동일성"은 동일한 아미노산의 수/본 발명의 펩티드의 아미노산의 총 수 이상인 임의의 백분율을 포함한다 ([적어도 % 동일성] ≥ [동일한 아미노산의 수] / [본 발명의 펩티드의 아미노산의 총 수]).

[0341] 본 발명은 서열 2001-2498로 이루어진 군 중에서 선택되는 아미노산 서열을 포함하거나 그로 이루어지는 펩티드 (예를 들어, 서열 2001-2296 및 2498 (예를 들어, 서열 2001-2126, 2128-2296, 또는 2498)로 이루어진 군 중에서 선택되는 및/또는 서열 2297-2497 (예를 들어, 서열 2298-2497)로 이루어진 군 중에서 선택되는 아미노산 서열을 포함하거나 그로 이루어지는 펩티드)를 또한 포함한다. 본 발명은 서열 3001-3108로 이루어진 군 중에서 선택되는 아미노산 서열을 포함하거나 그로 이루어지는 펩티드 (예를 들어, 서열 3001-3064 (예를 들어, 서열 3001-3048, 3051-3053, 3055, 또는 3057-3064)로 이루어진 군 중에서 선택되는 및/또는 서열 3065-3084 (예를 들어, 서열 3066-3084)로 이루어진 군 중에서 선택되는 및/또는 서열 3085-3108로 이루어진 군 중에서 선택되는 아미노산 서열을 포함하거나 그로 이루어지는 펩티드)를 추가로 제공한다.

[0342] 서열 1-7의 펩티드는 또한 일부 측면에서 서열 1-7의 N- 또는 C-말단에 부착된 하나 이상의 아미노산을 포함한다. 예를 들어, 본 발명은 JBT0047, JBT0051, JBT0055, JBT0131, JBT0132, JBT0133, JBT0155, JBT0158, JBT0162, JBT0163, JBT0164, JBT0166, JBT0169, JBT0170, JBT0171, JBT0174, JBT0175, 또는 JBT0293 (이들 모두는 서열 1의 아미노산 서열을 포함한다)의 아미노산 서열을 포함하거나 그로 이루어지는 펩티드를 포함한다. 서열 2의 아미노산 서열을 포함하는 예시적인 펩티드는 JBT0294, JBT0295, JBT0296, JBT0297, JBT0298, JBT0299, JBT0300, JBT0301, JBT0302, JBT0303, JBT0304, JBT0305, JBT0306, JBT0307, JBT0308, JBT0309, JBT0310, 또는 JBT0311의 아미노산 서열을 포함하거나 그로 이루어지는 펩티드를 포함한다. 서열 3의 아미노산 서열을 포함하는 예시적인 펩티드는 JBT0049, JBT0053, JBT0057, JBT0190, JBT0193, 또는 JBT0197의 아미노산 서열을 포함하거나 그로 이루어진다. 본 발명은 JBT0050, JBT0054, JBT0058, JBT0129, JBT0130, JBT0205, JBT0208, JBT0211, JBT0212, JBT0217, JBT0218, 또는 JBT0219 (이들은 모두 서열 4의 아미노산 서열을 포함한다)의 아미노산 서열을 포함하거나 그로 이루어지는 펩티드를 추가로 포함한다. 서열 5를 포함하는 예시적인 펩티드는 JBT0101, JBT0052, JBT0103, JBT0178, 또는 JBT0182의 아미노산 서열을 포함하거나 그로 이루어지는 펩티드를 포함한다. 본 발명은 JBT0120, JBT0124, JBT0247, JBT0248, JBT0251, 또는 JBT0252 (이들은 각각 서열 6의 아미노산 서열을 포함한다)의 아미노산 서열을 포함하거나 그로 이루어지는 펩티드를 추가로 포함한다. 서열 7의 아미노산 서열을 포함하는 펩티드, 예를 들어, JBT0122, JBT0126. JBT0221, JBT0224, JBT0225, JBT0226, JBT0228, JBT0232, 또는 JBT0233의 아미노산 서열을 포함하거나 그로 이루어지는 펩티드를 또한 본 발명에서 제공한다. 본원에 기재된 펩티드는 실시예 1의 표 5 및 도 12-18에 제시되어 있다.

[0343] 특정 실시양태에서, 본 발명의 펩티드는 JBT0047, JBT0049, JBT0101, JBT0120, 또는 JBT0122의 아미노산 서열, 또는 본원에 기재된 임의의 본 발명의 펩티드 (예를 들어, 임의의 하나의 서열 1-3108의 아미노산 서열을 포함하거나 그로 이루어지는 펩티드, 예를 들어 임의의 하나의 서열 8-741, 744-968, 971-978, 1001-1210, 1213-1289, 1290-1293, 2001-2126, 2128-2296, 2298-2498, 3001-3048, 3051-3053, 3055, 3057-3064, 및 3067-3108의 아미노산 서열을 포함하거나 그로 이루어지는 펩티드), 또는 임의의 상기 서열의 변이체를 포함하거나 그로 이루어진다. "변이체"는 모 아미노산 서열에 대해 하나 이상의 아미노산 치환, 아미노산 결실, 또는 아미노산 부가를 포함하는 펩티드를 의미한다. 변이체는 TFPI에 결합하고/하거나 TFPI 활성을 억제하는 능력을 보유하면서 본원에서 제공되는 임의의 아미노산 서열에 적어도 60%, 65%, 70%, 71%, 72%, 73%, 74%, 75%, 76%, 77%, 78%, 79%, 80%, 81%, 82%, 83%, 84%, 85%, 86%, 87%, 88%, 89%, 90%, 91%, 92%, 93%, 94%, 95%, 96%, 97%, 98% 또는 99% 동일한 아미노산 서열을 갖는 펩티드를 포함하고 이로 제한되지 않는다. 하나의 실시양태에서, 펩티드는 JBT0132, JBT0303, JBT0193, JBT0178, JBT0120, 또는 JBT0224의 아미노산 서열을 포함하거나 그로 이루어진다.

[0344] 하나의 측면에서, 본 발명의 펩티드는 40개 이하의 아미노산, 예를 들어 35개 이하의 아미노산으로 이루어진다. 임의로, 본 발명의 펩티드는 25개 이하의 아미노산, 또는 10개 이하의 아미노산으로 이루어진다. 다양한 실시양태에서, 펩티드는 15-35개의 아미노산 잔기 (예를 들어, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 또는 35개의 아미노산 잔기)를 포함한다. 그러나, 펩티드가 응고 케스케이

드의 TFPI 억제를 차단하고 임의로 TFPI에 결합하는 한, 하나 이상의 결실을 포함하는 본원에 기재된 펩티드가 본 발명의 문맥에서 적합한 것이 또한 고려된다. 하나의 측면에서, 펩티드가 TFPI에 결합하고 임의로 응고 케스케이드의 TFPI 억제를 차단하는 한, 하나 이상의 결실을 포함하는 펩티드가 본 발명의 문맥에서 적합하다. 일부 측면에서, 아미노산은 아미노산 서열 내로부터 N-말단에서 및/또는 C-말단에서 제거된다. 그러한 펩티드 단편은 3-14개의 아미노산 잔기 (예를 들어, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 또는 14개의 아미노산 잔기)를 포함할 수 있다.

[0345] 임의로, 본 발명의 펩티드는 TFPI에 결합하고/하거나 억제하는 펩티드의 능력을 파괴하지 않는 하나 이상의 아미노산 치환 (본원에서 제공되는 임의의 아미노산 서열에 대해)을 포함한다. 예를 들어, JBT0294, JBT0295, JBT0296, JBT0297, JBT0298, JBT0299, JBT0300, JBT0301, JBT0302, JBT0303, JBT0304, JBT0305, JBT0306, JBT0307, JBT0308, JBT0309, JBT0310, 또는 JBT0311로 이루어진 군 중에서 선택되는 아미노산 서열을 포함하거나 그로 이루어지는 펩티드는 JBT0293의 아미노산 서열의 치환 돌연변이체이다 (N-말단에서 페닐알라닌 잔기 및 C-말단에서 라이신 잔기에 직접 연결된 서열 1의 아미노산 서열) (도 4 참조). 아미노산 치환은 (1) 단백질분해에 대한 감수성을 감소시키고/시키거나, (2) 산화에 대한 감수성을 감소시키고/시키거나, (3) 결합 친화도를 변경하고/하거나, (4) 펩티드에 대해 다른 물리화학적 또는 기능적 특성을 부여하거나 변형하는 것을 포함하고 이로 제한되지 않는다. 하나의 측면에서, 치환은 보존적 치환이고, 여기서 아미노산 잔기는 유사한 측쇄를 갖는 아미노산 잔기로 교체된다. 유사한 측쇄를 갖는 아미노산 잔기의 패밀리는 당업계에 규정되어 있고, 염기성 측쇄 (예를 들어, 라이신, 아르기닌, 및 히스티딘), 산성 측쇄 (예를 들어, 아스파르트산 및 글루탐산), 비하전극성 측쇄 (예를 들어, 글라이신, 아스파라긴, 글루타민, 세린, 트레오닌, 티로신, 및 시스테인), 비극성 측쇄 (예를 들어, 알라닌, 발린, 류신, 이소류신, 프롤린, 페닐알라닌, 메티오닌, 및 트립토판), 베타-분지형 측쇄 (예를 들어, 트레오닌, 발린, 및 이소류신) 및 방향족 측쇄 (예를 들어, 티로신, 페닐알라닌, 트립토판, 및 히스티딘)를 갖는 아미노산을 포함한다. 그러나, 당업자는 생성되는 펩티드가 TFPI 활성을 전적으로 또는 부분적으로 하향조절하는 능력을 보유하는 한 보존적 치환을 생성하는 것에 제한되지 않음이 이해될 것이다. 본 발명은 당업계에 공지되어 있는 비전형적인, 비-천연 아미노산을 포함하는 TFPI-억제 펩티드를 또한 포함한다. 예시적인 비-천연 아미노산은 오르니틴, 시트룰린, 히드록시프롤린, 호모세린, 페닐글라이신, 타우린, 요오도티로신, 2,4-디아미노부티르산, α-아미노 이소부티르산, 4-아미노부티르산, 2-아미노 부티르산, y-아미노부티르산, 2-아미노 이소부티르산, 3-아미노 프로피온산, 노르류신, 노르발린, 사르코신, 호모시트룰린, 시스테인산, t-부틸글라이신, t-부틸알라닌, 페닐글라이신, 시클로헥실알라닌, β-알라닌, 플루오로-아미노산, 3-메틸아미노산, α-C-메틸 아미노산, N-메틸 아미노산, 2-아미노-이소부티르산, β-호모글루탐산, β-호모페닐알라닌, β-호모라이신, β-호모류신, β-호모아스파라긴, β-호모글루타민, β-호모아르기닌, β-호모세린, β-호모티로신, β-호모아스파르트산, β-호모발린, β-호모아스파라긴, (S)-시클로헥실알라닌, (S)-시트룰린, (S)-2,4-디아미노부티르산, (S)-2,4-디아미노부티르산, (S)-디아미노프로피온산, (S)-2-프로파르길글라이신, (S)-N(오메가)-니트로-아르기닌, L-호모페닐알라닌, (S)-호모-아르기닌, (S)-호모-시트룰린, (S)-호모-시스테인, (S)-2-아미노-5-메틸-헥산산, (S)-호모-라이신, (S)-노르류신, (S)-N-메틸알라닌, (S)-N-메틸-아스파르트산, (S)-N-메틸-글루탐산, (S)-N-메틸-페닐알라닌, N-메틸-글라이신, (S)-N-메틸-라이신, (S)-N-메틸-류신, (S)-N-메틸-아르기닌, (S)-N-메틸-세린, (S)-N-메틸-발린, (S)-N-메틸-티로신, (S)-2-아미노-펜탄산, (S)-2-피리딜-알라닌, (S)-오르니틴, L-페닐글라이신, 4-페닐-부티르산 및 셀레노메티오닌을 포함한다. 개별 아미노산은 적절한 경우에 L 또는 D 입체화학을 가질 수 있지만, L 입체화학이 펩티드 내에서 모든 아미노산에 대해 일반적으로 사용된다.

[0346] 본 발명은 본원에서 제공되는 아미노산 서열 내에 삽입되고/되거나 N-말단 또는 C-말단에 부착된 하나 이상의 아미노산을 포함하는 TFPI-억제 펩티드 변이체를 추가로 포함한다. 하나의 측면에서, 펩티드는 펩티드의 용해도를 증가시키기 위해 N-말단 및/또는 C-말단에서 1 또는 2개의 라이신을 포함하고 이로 제한되지 않는, 펩티드의 합성, 취급, 또는 사용을 용이하게 하는 하나 이상의 아미노산을 추가로 포함한다. 적합한 융합 단백질은 단백질 서열의 일부인 것으로 일반적으로 인정되지 않는 하나 이상의 폴리펩티드, 폴리펩티드 단편, 또는 아미노산에 연결된 TFPI-억제 펩티드를 포함하는 단백질을 포함하고 이로 제한되지 않는다. 하나의 측면에서, 융합 펩티드는 2개 이상의 펩티드의 전체 아미노산 서열을 포함하거나, 별법으로 2개 이상의 펩티드의 일부 (단편)를 포함한다. 본원에 기재된 TFPI-억제 펩티드의 전부 또는 일부에 추가로, 융합 단백질은 임의로 목적하는 생물학적 활성/기능을 포함하는 임의의 적합한 펩티드의 전부 또는 일부를 포함한다. 실제로, 일부 측면에서, TFPI-억제 펩티드는 예를 들어 순환 반감기가 긴 펩티드, 마커 단백질, TFPI-억제 펩티드의 정제를 용이하게 하는 펩티드, 다량체 단백질의 형성을 촉진하는 펩티드 서열, 또는 임의의 상기한 것의 단편 중 하나 이상에 작동가능하게 연결된다. 하나의 실시양태에서, 2개 이상의 TFPI-억제 펩티드는 함께 융합되거나, 다량체화 도메인

에 의해 연결되거나, 화학 연결을 통해 부착되어 TFPI-억제 펩티드 복합체를 생성한다. TFPI-억제제 펩티드들은 동일하거나 상이할 수 있다.

[0347] "유도체"가 본 발명에 포함되고, 이는 아미노산의 부가, 결실 또는 치환과 구분되는 일부 방식으로 화학적으로 변형된 TFPI-억제 펩티드를 포함한다. 이와 관련하여, 본원에서 제공되는 본 발명의 펩티드는 중합체, 지질, 다른 유기 모이어티 (moiety), 및/또는 무기 모이어티와 화학적으로 결합된다. 펩티드 및 단백질 변형의 예는 문헌 [Hermanson, Bioconjugate Techniques, Academic Press, (1996)]에 제시되어 있다. 유도체는 용해도, 안정성, 흡수, 또는 순환 반감기를 증가시키기 위해 일부 상황에서 제조된다. 다양한 화학적 변형은 물질의 임의의 바람직하지 않은 부작용을 제거하거나 약화시킨다. 이와 관련하여, 본 발명은 하나 이상의 수용성 중합체 부착을 포함하도록 공유 변형된 TFPI-억제 펩티드를 포함한다. 당업계에 공지된 유용한 중합체는 폴리에틸렌 글리콜 (PEG) (예를 들어, 크기가 약 40 kD 또는 1 kD인 PEG), 폴리옥시에틸렌 글리콜, 폴리프로필렌 글리콜, 모노메톡시-폴리에틸렌 글리콜, 덱스트란, 셀룰로스, 폴리-(N-비닐 피롤리돈)-폴리에틸렌 글리콜, 프로필렌 글리콜 동종중합체, 폴리프로필렌 옥시드/에틸렌 옥시드 공-중합체, 폴리옥시에틸화 폴리올 (예를 들어, 글리세롤) 및 폴리비닐 알콜, 및 임의의 상기 물질들의 혼합물을 포함하고 이로 제한되지 않는다. 하나의 측면에서, 본 발명의 펩티드는 PEG화된 펩티드이다. 수용성 중합체 부착에 대한 추가의 논의에 대해서는 미국 특허 4,640,835; 4,496,689; 4,301,144; 4,670,417; 4,791,192; 및 4,179,337을 참조한다. 다른 측면에서, 펩티드 유도체는 특정 세포 종류, 조직, 및/또는 장기에 특이적인 표적화 모이어티를 포함한다. 별법으로, 펩티드는 정제, 검출, 다량체화 및 펩티드 활성의 특성 결정을 용이하게 하는 하나 이상의 화학적 모이어티에 연결된다. 예시적인 화학적 모이어티는 비오틴이다. 또한, 하나의 측면에서, 본 발명의 펩티드는 펩티드의 N-말단 아미노산에서 아실화된다. 다른 측면에서, 본 발명의 펩티드는 펩티드의 C-말단 아미노산에서 아미드화된다. 또 다른 추가의 측면에서, 본 발명의 펩티드는 펩티드의 N-말단 아미노산에서 아실화되고 펩티드의 C-말단 아미노산에서 아미드화된다.

[0348] 유도체는 변형된 또는 비-단백질구성 아미노산 또는 변형된 링커기를 포함하는 펩티드를 또한 포함한다 (예를 들어, 문헌 [Grant, Synthetic Peptides: A User's Guide, Oxford University Press (1992)] 참조). 변형된 아미노산은 예를 들어 아미노 및/또는 카르복실기가 다른 기로 교체된 아미노산을 포함한다. 비-제한적인 예는 티오아미드, 우레아, 티오우레아, 아실히드라지드, 에스테르, 올레핀, 술폰아미드, 인산 아미드, 케톤, 알콜, 붕산 아미드, 벤조디아제핀 및 다른 방향족 또는 비-방향족 헤테로사이클을 포함하는 변형된 아미노산을 포함한다 (문헌 [Estiarte et al., Burgers Medicinal Chemistry, 6th edition, Volume 1, Part 4, John Wiley & Sons, New York (2002)] 참조). 변형된 아미노산은 아미드 결합 대신에 상기 언급한 관능기 중의 적어도 하나를 갖는 펩티드에 종종 연결된다. 비-단백질구성 아미노산은 β-알라닌 (Bal), 노르발린 (Nva), 노르류신 (Nle), 4-아미노부티르산 (γ-Abu), 2-아미노이소부티르산 (Aib), 6-아미노헥산산 (ε-Ahx), 오르니틴 (Orn), 히드록시프롤린 (Hyp), 타우린, 사르코신, 시트룰린 (Cit), 시스테인산 (Coh), 시클로헥실알라닌 (Cha), 메티오닌술폭시드 (Meo), 메티오닌술폰 (Moo), 호모세린메틸에스테르 (Hsm), 프로파르길글라이신 (Eag), 5-플루오로트립토판 (5Fw), 6-플루오로트립토판 (6Fw), 3',4'-디메톡시페닐-알라닌 (Ear), 3',4'-디플루오로페닐알라닌 (Dff), 4'-플루오로페닐-알라닌 (Pff), 1-나프틸-알라닌 (1Ni), 1-메틸트립토판 (1Mw), 페니실라민 (Pen), 호모세린 (Hse), t-부틸글라이신, t-부틸알라닌, 페닐글라이신 (Phg), 벤조티에닐알라닌 (Bta), L-호모-시스테인 (Hcy), N-메틸-페닐알라닌 (Nmf), 2-티에닐알라닌 (Thi), 3,3-디페닐알라닌 (Ebw), 호모페닐알라닌 (Hfe) 및 S-벤질-L-시스테인 (Ece)을 포함하고 이로 제한되지 않는다. 상기 및 다른 비-단백질구성 아미노산은 D- 또는 L-이성질체로서 존재할 수 있다. 변형된 링커의 예는 가요성 링커 4,7,10-트리옥사-1,13-트리데칸디아민 (Ttds), 글라이신, 6-아미노헥산산, 베타-알라닌 (Bal), 및 Ttds, 글라이신, 6-아미노헥산산 및 Bal의 조합물을 포함하고 이로 제한되지 않는다.

[0349] 본 발명의 펩티드를 구성하는 아미노산의 상동체는 표 3에 제시된 바와 같을 수 있다.

[0350] <표 3>

아미노산	예시적인 상동체
A	Aib, Bal, Eag, Nma, Abu, G, M, Nva, Nle
C	S, A, Hcy, M, L, I, V, Nmc, β-시스테인
D	E, 호모글루탐산, γ-히드록시-글루탐산, γ-카르복시-글루탐산, Nmd, β-아스파르트산, N, Q, 시스테인산
E	D, Glu, 호모글루탐산, γ-히드록시-글루탐산, γ-카르복시-글루탐산, α-아미노아디프산, Nme, β-글루탐산, Q, N, 시스테인산
F	Hfe, Nmf, β-페닐알라닌, Phg, Bhf, 티에닐알라닌, 벤조티에닐알라닌, 브로모페닐알라닌, 요오도페닐알라닌, 클로로페닐알라닌, 메틸페닐알라닌, 니트로페닐알라닌, Y, W, 나프틸알라닌, Tic
G	A, Nmg
H	Nmh, 1-메틸히스티딘, 3-메틸히스티딘, 티에닐알라닌
I	L, V, Hle, Nva, Nle, β-이소류신, Nml, M, Nmi
K	Nmk, R, Nmr, β-라이신, Dab, Dap, β-(1-피페라지닐)-알라닌, 2,6-디아미노-4-헥시논산, 델타-히드록시-라이신, Har, 오메가-히드록시-노르아르기닌, 오메가-아미노-아르기닌, 오메가-메틸-아르기닌, β-(2-피리딜)-알라닌, β-(3-피리딜)-알라닌, 3-아미노-티로신, 4-아미노-페닐알라닌, Hci, Cit
L	I, V, Hle, Nle, Nva, β-이소류신, Nml, M
M	I, V, Hle, Nva, R, Har, Nmm, 메티오닌술폰
N	Nmn, β-아스파라긴, Q, Nmq, β-글루타민, 시스(3-프로피온산 아미드)-OH, 시스(O2-3-프로피온산 아미드)-OH
P	아제티딘-2-카르복실산, Hyp, α-메틸-메티오닌, 4-히드록시-피페리딘-2-카르복실산, Pip, α-메틸-Pro
Q	N, Nmn, Nmq, β-글루타민, 시스(3-프로피온산 아미드)-OH, 시스(O2-3-프로피온산 아미드)-OH
R	Nmk, K, Nmr, β-라이신, Dab, Dap, Orn, β-(1-피페라지닐)-알라닌, 2,6-디아미노-4-헥시논산, 델타-히드록시-라이신, Har, 오메가-히드록시-노르아르기닌, 오메가-아미노-아르기닌, 오메가-메틸-아르기닌, β-(2-피리딜)-알라닌, β-(3-피리딜)-알라닌, 3-아미노-티로신, 4-아미노-페닐알라닌, Hci, Cit, Hle, L, Nle, M
S	T, Hse, β-세린, C, β-시아노-알라닌, 알로-트레오닌
T	S, 호모트레오닌, β-트레오닌, 알로-트레오닌
V	L, I, Hle, Nva, Nle, β-발린, Nmv, M, Nmi, Nml
W	Nmw, β-트립토판, F, Hfe, Nmf, β-페닐알라닌, Phg, Bhf, 티에닐알라닌, 벤조티에닐알라닌, 브로모페닐알라닌, 요오도페닐알라닌, 클로로페닐알라닌, 메틸페닐알라닌, 니트로페닐알라닌, Y, 나프틸알라닌, Tic
Y	Nmy, β-티로신, F, Hfe, Nmf, β-페닐알라닌, Phg, Bhf, 티에닐알라닌, 벤조티에닐알라닌, 브로모페닐알라닌, 요오도페닐알라닌, 클로로페닐알라닌, 메틸페닐알라닌, 니트로페닐알라닌, W, 나프틸알라닌, Tic

[0351]

[0352] 일부 실시양태에서, 본 발명의 펩티드 내에서 아미노산들을 연결하는 펩티드 (CO-NH) 연결기는 "레트로(retro)-변형된" 펩티드, 즉, 참조 펩티드에 비해 반대 방향 (NH-CO 결합)으로 회합된 아미노산 잔기를 포함하는 펩티드를 생성하기 위해 반전된다. 레트로-변형된 펩티드는 참조 펩티드와 동일한 아미노산 키랄성(chirality)을 포함한다. "인버소 (inverso)-변형된" 펩티드는 참조 펩티드와 동일한 방향으로 회합된 아미노산 잔기를 포함하는 본 발명의 펩티드이지만, 아미노산의 키랄성이 역전된다. 따라서, 참조 펩티드가 L-아미노산을 포함할 경우, "인버소-변형된" 펩티드는 D-아미노산을 포함하고, 그 반대의 경우도 가능하다. 인버소-변형된 펩티드는 CO-NH 펩티드 결합을 포함한다. "레트로-인버소 변형된" 펩티드는 반대 방향으로 회합되고 역전된 키랄성을 갖는 아미노산 잔기를 포함하는 펩티드를 의미한다. 레트로-인버소 유사체는 참조 펩티드에서 발견되는 측쇄 토폴로지 (topology)를 거의 유지하면서 펩티드 결합 (즉, NH-CO)의 반전된 말단 및 반전된 방향을 갖는다. 레트로-인버소 펩티드모방체는 본원에 참고로 포함된 문헌 [Meziere et al., Immunol., 159, 3230-3237 (1997)]에 기재된 방법을 포함하는 표준 방법을 사용하여 제조된다. 부분적인 레트로-인버소 펩티드는 단지 일부의 아미노산 서열만이 반전되고 에난티오머성 아미노산 잔기로 교체된 펩티드이다.

[0353] 본 발명의 TFPI-결합 펩티드 (예를 들어, TFPI 억제제 펩티드)는 다양한 방식으로 제조된다. 하나의 측면에서, 펩티드는 문헌 [Merrifield, J. Am. Chem. Soc, 85, 2149 (1963)]; [Davis et al., Biochem. Intl., 10, 394-414 (1985)]; [Larsen et al., J. Am. Chem. Soc, 115, 6247 (1993)]; [Smith et al., J. Peptide Protein Res., 44, 183 (1994)]; [O'Donnell et al., J. Am. Chem. Soc, 118, 6070 (1996)]; [Stewart and Young,

Solid Phase Peptide Synthesis, Freeman (1969)]; [Finn et al., The Proteins, 3rd ed., vol. 2, pp. 105-253 (1976)]; 및 [Erickson et al., The Proteins, 3rd ed., vol. 2, pp. 257-527 (1976)]에 기재된 것을 포함한 고체상 합성 기술에 의해 합성된다. 별법으로, TFPI-결합 펩티드 (예를 들어, TFPI-억제 펩티드)는 TFPI-결합 펩티드 (예를 들어, TFPI-억제 펩티드)를 코딩하는 핵산을 숙주 세포 (이는 펩티드를 발현시키도록 배양된다)에 도입함으로써 재조합 방식으로 발현된다. 그러한 펩티드는 표준 단백질 정제 기술을 이용하여 세포 배양액으로부터 정제된다.

[0354] 본 발명은 본 발명의 TFPI-억제 펩티드를 코딩하는 핵산 서열을 포함하는 핵산을 또한 포함한다. DNA 및/또는 RNA 분자의 제조 방법은 당업계에 공지되어 있다. 하나의 측면에서, 본원에서 제공되는 펩티드를 코딩하는 DNA/RNA 분자는 화학 합성 기술 및/또는 중합효소 연쇄 반응 (PCR)을 이용하여 생성된다. 원하는 경우에, TFPI-억제 펩티드 코딩 서열은 발현 벡터 내로 도입된다. 당업자는 당업계에 공지된 임의의 많은 발현 벡터, 예를 들어 비제한적으로 플라스미드, 플라스미드-리포좀 복합체, 및 바이러스 벡터가 본 발명의 문맥에서 적합함을 알 것이다. 임의의 이들 발현 벡터는 예를 들어, 문헌 [Sambrook et al., Molecular Cloning, a Laboratory Manual, 2d edition, Cold Spring Harbor Press, Cold Spring Harbor, N.Y. (1989)] 및 [Ausubel et al., Current Protocols in Molecular Biology, Greene Publishing Associates and John Wiley & Sons, New York, N.Y. (1994)]에 기재된 표준 재조합 DNA 기술을 이용하여 제조된다. 임의로, 핵산은 하나 이상의 조절 서열, 예를 들어 프로모터, 활성제, 인핸서, cap 신호, 폴리아데닐화 신호, 또는 전사 또는 번역의 제어와 연관된 다른 신호에 작동가능하게 연결된다.

[0355] 본 발명의 임의의 TFPI-억제 펩티드, 또는 펩티드를 코딩하는 핵산은 또한 조성물 (예를 들어, 제약 조성물) 내에 제공된다. 이와 관련하여, 펩티드는 본원에서 추가로 설명되는 생리학상 허용되는 (즉, 약물학상 허용되는) 담체, 버퍼, 부형제, 또는 희석제를 사용하여 제형화된다. 임의로, 펩티드는 생리학상 허용되는 염의 형태로 존재하고, 이는 본 발명에 포함된다. "생리학상 허용되는 염"은 제약상 허용되는 임의의 염을 의미한다. 적절한 염의 일부 예는 아세트산염, 염산염, 브롬화수소산염, 황산염, 시트레이트, 타르트레이트, 글리콜레이트, 및 옥살레이트를 포함한다. 원하는 경우에, 조성물은 하나 이상의 추가의 제약상 유효제를 포함한다.

[0356] 본원에서 제공되는 펩티드는 임의로 적어도 하나의 조직 인자 경로 억제제-1 (예를 들어, TFPI-1α) 활성, 예를 들어 비제한적으로 혈액 응고 케스케이드를 하향조절하는 활성을 억제한다. 임의의 특정 작용 메카니즘에 매이지 않지만, 제안된 억제 메카니즘은 4원 TF-FVIIA-FXA-TFPI 복합체의 형성을 방지하는 것을 포함할 수 있다. 펩티드는 FXa (예를 들어, 인자 Xa에 대한 TFPI 쿠니츠 도메인 2의 결합을 억제한다), TF/FVIIa 복합체 (예를 들어, TF/FVIIa 복합체에 대한 TFPI 쿠니츠 도메인 1의 결합을 억제한다), TF 단독, 및/또는 FVIIa 단독에 대한 TFPI의 결합을 억제한다. TFPI 활성이 감쇄하면, TF 및 FVIIa는 유리되어 FX를 활성화시키고, 이는 차례로 프로트롬빈의 트롬빈으로의 전환을 향상시킨다.

[0357] 하나의 측면에서, 본 발명의 펩티드는 모델 및/또는 혈장 시스템에서 TFPI 길항 활성을 보인다. TFPI-억제 활성을 결정하기 위한 예시적인 모델 시스템은 외인성 테나제 분석이고, 이는 TFPI (이는 FX 활성화 반응의 천연 억제제임)의 존재 하에 외인성 복합체-매개된 FX 활성화를 회복시키는 후보 펩티드의 능력을 시험한다 (예를 들어, 문헌 [Lindhout et al., Thromb. Haemost., 74, 910-915 (1995)] 참조). TFPI-억제 활성을 특성 결정하기 위한 또 다른 모델 시스템은 FXa 억제 분석이고, 여기서 FXa 활성을 TFPI의 존재 하에 측정한다 (문헌 [Sprecher et al., PNAS, 91, 3353-3357 (1994)] 참조). 외인성 테나제 분석 및 FXa 억제 분석은 실시예 3에 추가로 설명된다. 임의로, 본 발명의 펩티드는 TFPI의 존재 하에 1×10^{-4} M 이하, 1×10^{-5} M 이하, 1×10^{-6} M 이하, 또는 1×10^{-7} M 이하의 절반 최대 유효 농도 (EC_{50})로 FX 활성화를 향상시킨다.

[0358] 하나의 측면에서, TFPI-길항 활성을 혈장-기반 분석으로 특성 결정한다. 트롬빈 형성은 후보 펩티드의 존재 하에 FVIII 또는 FIX 활성이 실질적으로 없는 혈장에서 촉발된다 (예를 들어, 잔류 응고 인자 활성은 1% 미만이다). 트롬빈 형성은 실시예 4에 기재된 바와 같이 형광 또는 발색 기질을 이용하여 검출할 수 있다. 트롬빈 활성을 측정하기 위한 시스템은 트롬비노스코프 비브이 (Thrombinoscope BV, 네덜란드 마스트리흐트)에 의해 제공된다. 프로트롬빈 전환은 예를 들어, 트롬보그래프 (Thrombograph)™ (써모 사이언티픽 (Thermo Scientific, 미국 매사추세츠주 월탬))를 이용하여 측정되고, 생성되는 데이타를 트롬비노스코프 비브이로부터 이용가능한 트롬비노스코프 (Thrombinoscope)™ 소프트웨어에 의해 생성된 교정된 자동 트롬보그램 (Calibrated Automatic Thrombogram)으로 컴파일링한다. 특정 실시양태에서, TFPI-억제 펩티드는 분석 동안 생성된 피크 트롬빈의 양을 증가시키고/시키거나 피크 트롬빈 형성을 달성하기 위해 요구되는 시간을 감소시킨다. 예를 들어, 펩티드는 FVIII의 부재 하에 (예를 들어, FVIII-결핍 혈장 내에서) TFPI-조절된 트롬빈 생성을, 정상 혈장 내에

서 TFPI-의존 트롬빈 생성의 수준의 적어도 1%로 개선시킨다. 일반적으로, 정상 (이환되지 않은) 혈장은 약 0.5 U/mL 내지 약 2 U/mL 인자 VIII를 함유한다. 따라서, 일부 경우에, TFPI-억제제 펩티드는 FVIII의 부재 하에 트롬빈 형성을 0.5 U/mL 내지 2 U/mL FVIII의 존재 하에 관찰된 것의 적어도 약 1%로 향상시킬 것이다. 추가의 실시양태에서, 펩티드는 인자 VIII의 부재 하에 트롬빈 형성을, 정상 혈장 내에서, 즉, 생리학적 수준의 인자 VIII의 존재 하에 트롬빈 형성의 수준의 적어도 약 2%, 적어도 약 3%, 적어도 약 5%, 적어도 약 7%, 또는 적어도 약 10%로 향상시킨다. 다양한 측면에서, 펩티드는 생체 내에서 TFPI 억제 활성을 특성화하기 위해 트롬빈 결핍 또는 혈우병의 동물 모델에게 투여된다. 그러한 생체내 모델은 당업계에 공지되어 있고, 예를 들어, 혈우병 A를 유도하기 위해 항-FVIII 항체를 투여한 마우스 (Tranholm et al., Blood, 102, 3615-3620 (2003)); 응고 인자 낙-아웃 (knock-out) 모델, 예를 들어 비제한적으로 FVIII 낙-아웃 마우스 (Bi et al., Nat. Genet., 10(1), 119-121 (1995)) 및 FIX 낙-아웃 마우스 (Wang et al., PNAS, 94(21), 11563-66 (1997)); 토끼에서 유도된 혈우병-A (Shen et al., Blood, 42(4), 509-521 (1973)); 및 채플 힐 (Chapel Hill) HA 개 (Lozier et al., PNAS, 99, 12991-12996 (2002))를 포함한다.

[0359] 임의의 특정 이론 또는 메카니즘에 매이지 않지만, 본원에서 제공되는 본 발명의 펩티드는 TFPI 및 FXa의 결합을 (경쟁적으로 또는 알로스테리 (allostery) 방식으로) 차단함으로써 TFPI 활성을 억제할 수 있다. 별법으로 또는 추가로, 펩티드는 조직 인자 (TF)/인자 VIIa 복합체와 TFPI의 결합을 억제할 수 있다. 따라서, 특정 측면에서, 펩티드는 TFPI에 특이적으로 결합한다. 비제한적으로 마우스, 래트, 토끼, 개, 고양이, 소, 말, 돼지, 기니 피그, 및 영장류를 포함한 임의의 공급원으로부터의 다양한 펩티드가 TFPI에 결합한다. 하나의 실시양태에서, 펩티드는 인간 TFPI에 결합한다. 임의로, TFPI-억제 펩티드는 하나 초과의 종으로부터의 TFPI에 결합한다 (즉, 펩티드는 다수의 종들 사이에서 교차반응성이다). 특정 측면에서, 펩티드는 1×10^{-4} M 이하, 1×10^{-5} M 이하, 1×10^{-6} M 이하, 또는 1×10^{-7} M 이하의 해리 상수 (K_D)로 TFPI에 결합한다. 친화도는 예를 들어 비제한적으로 임의의 하나, 2 또는 그 이상의 다양한 기술, 예를 들어 친화도 ELISA 분석, 경쟁 ELISA 분석, 및/또는 표면 플라즈몬 공명 (BIAcore™) 분석을 이용하여 결정할 수 있다. 경쟁 (IC_{50}) ELISA 분석을 이용하여 특성 결정할 때, 본 발명의 펩티드는 임의로 약 50,000 nM 이하의 IC_{50}을 나타낸다. 예를 들어, 펩티드는 약 10,000 nM 이하의 IC_{50}, 예를 들어 약 5,000 nM 이하, 약 1,000 nM 이하, 또는 약 500 nM 이하의 IC_{50}을 나타낸다. 하나의 측면에서, 펩티드는 약 250 nM 이하, 약 100 nM 이하, 또는 약 50 nM 이하의 IC_{50}을 나타낸다. 예시적인 펩티드 및 그들의 IC_{50} 값을 도 32-39에 제공하고; 일부 경우에, 펩티드를 IC_{50} 값에 기초하여 군 A, B, C, D, E, F, 및 G (실시예 1의 표 4 참조)로 분류한다. 다양한 측면에서, 본 발명은 표 4에 규정된 군 A, B, C, D, E, F, 및/또는 G에 속하는 펩티드를 제공한다. 친화도는 운동학 방법 또는 평형/용액 방법에 의해 또한 결정할 수 있다. 그러한 방법은 본원에서 추가로 상세히 설명되거나 당업계에 공지되어 있다.

[0360] 모든 결합 물질 및 결합 분석과 마찬가지로, 당업자는 생물학상 (예를 들어, 치료상) 효과적이기 위해서 결합 물질이 검출가능하게 결합하지 않아야 하는 다양한 모이어티를 나열하는 것은 소모적이고 비실용적일 것임을 안다. 따라서, 용어 "특이적으로 결합하다"는 TFPI가 아닌 비관련 대조 단백질에 결합하는 것보다 더 큰 친화도로 TFPI에 결합하는 펩티드의 능력을 나타낸다. 예를 들어, 펩티드는 대조 단백질에 대한 친화도보다 적어도, 5, 10, 15, 25, 50, 100, 250, 500, 1000, 또는 10,000배 더 큰 친화도로 TFPI에 결합할 수 있다. 일부 실시양태에서, 펩티드는 "항-표적" (그에 대한 펩티드의 결합이 유해 효과를 일으킬 수도 있는 인간 내의 단백질 또는 다른 천연 발생 물질)에 결합하는 것보다 더 큰 친화도로 TFPI에 결합한다. 몇몇 클래스의 펩티드 또는 단백질은 잠재적인 항-표적이다. TFPI-억제 펩티드는 혈류 내에서 및/또는 내피에서 그들의 활성을 발휘하기 때문에, 혈장 단백질이 잠재적인 항-표적에 해당한다. 상이한 단백질의 KD는 유의한 유사성을 공유하므로 쿠니츠 도메인 (KD)을 함유하는 단백질은 잠재적인 항-표적이다. 조직 인자 경로 억제제-2 (TFPI-2)는 TFPI-1α에 매우 유사하고, TFPI-1α와 유사하게 KD를 함유한다 (Sprecher et al., PNAS, 91, 3353-3357 (1994)). 따라서, 하나의 측면에서, 본 발명의 펩티드는 항-표적, 예를 들어 TFPI-2에 대한 친화도보다 적어도 5, 10, 15, 25, 또는 50배 더 큰 친화도로 TFPI에 결합한다.

[0361] 본 발명은 조직 인자 경로 억제제-1 (TFPI)의 억제 방법을 추가로 포함한다. 방법은 본원에 기재된 바와 같이 TFPI를 TFPI-결합 펩티드와 접촉시키는 것을 포함한다. 임의의 정도의 TFPI-활성 억제가 고려된다. 예를 들어, TFPI-억제 펩티드는 외인성 경로의 TFPI-억제를 적어도 약 5% (예를 들어, 적어도 약 10%, 적어도 약 25%, 또는 적어도 약 30%) 감소시킨다. 일부 실시양태에서, TFPI-억제 펩티드는 외인성 경로 내에서 TFPI 활성을, 펩티드의 부재 하에 TFPI 활성에 비해 적어도 약 50%, 적어도 약 75%, 또는 적어도 약 90% 감소시킨다.

[0362] 본 발명은 TFPI가 위치하는 생물학적 구조 (예를 들어 비제한적으로 세포 표면 및 내피층 (lining))를 표적화하는 방법을 추가로 포함한다. 방법은 생물학적 구조 (예를 들어, 비제한적으로 세포 표면 상에서 TFPI를 디스플레이하는 세포를 포함함)를 임의로 펩티드에 추가의 기능성을 부여하는 모이어티에 접합된 본원에 기재된 TFPI-결합 펩티드와 접촉시키는 것을 포함한다. 모이어티는 염료 (예를 들어 형광 염료), 방사성 핵종 또는 방사성 핵종-함유 복합체, 단백질 (예를 들어, 효소, 독소, 또는 항체) 또는 세포독성제일 수 있다. 예를 들어, 펩티드는 펩티드 검출 및/또는 정제를 용이하게 하고/하거나 치료 특성을 포함하는 효과기 모이어티에 연결 또는 접합된다. 하나의 측면에서, TFPI-결합 펩티드 또는 펩티드 접합체는 포유동물 내에서 TFPI를 디스플레이하는 세포를 표적화하기 위해 포유동물에게 투여된다. 임의로, 방법은 TFPI에 대한 TFPI-결합 펩티드의 결합을 검출하는 것을 추가로 포함한다. 방법은 TFPI가 적합한 진단 마커이거나 TFPI-발현 세포가 치료 방안을 위한 표적인 질병의 치료 및 진단을 위해 유용하다.

[0363] 일부 측면에서, 펩티드-TFPI 결합은 간접적으로 검출된다. 이와 관련하여, 펩티드는 펩티드-TFPI 결합을 유의하게 저해하지 않으면서 본 발명의 펩티드에 결합하는 상호작용 파트너 (partner)와 접촉되고, 상호작용 파트너가 검출된다. 예시적인 상호작용 파트너는 항체, 항원-결합 항체 단편, 안티칼린 및 항체 모방체, 앱타머 (aptamer) 및 스피겔머 (spiegelmer)를 포함하고 이로 제한되지 않는다. 임의로, 상호작용 파트너는 상호작용 파트너-펩티드 복합체의 검출을 용이하게 하기 위해 검출 모이어티를 포함한다. 예를 들어, 항체 및 그의 단편을 검출하는 방법은 당업계에서 잘 이해되고 있다. 유사하게, 검출 모이어티는 생물학적 물질의 확인을 위해 당업계에서 널리 사용되고, 예를 들어 염료 (예를 들어, 형광 염료), 방사성 핵종 및 방사성 핵종-함유 복합체, 및 효소를 포함한다.

[0364] 따라서, 본 발명은 이상 TFPI 활성과 연관되거나 그에 의해 유발되는 질병 또는 질환에 걸린 또는 질병 또는 질환에 걸릴 위험이 있는 대상체를 진단하는 방법을 제공한다. 방법은 대상체에게 본 발명의 TFPI-결합 펩티드를 투여하고, TFPI-펩티드 복합체를 검출하는 것을 포함한다. 일부 경우에, 본 발명의 펩티드는 검출가능한 모이어티에 접합되고, 방법은 검출가능한 모이어티를 검출하는 것을 포함한다. 다른 경우에, 방법은 대상체에게 TFPI-결합 펩티드에 결합하는 TFPI-결합 펩티드 상호작용 파트너를 투여하고, 상호작용 파트너를 검출하는 것을 포함한다. 원하는 경우에, 상호작용 파트너는 검출가능한 모이어티를 포함하거나 그에 접합되고, 검출가능한 모이어티가 검출된다. 검출가능한 모이어티의 존재는 TFPI의 존재를 나타내고, 그에 의해 TFPI와 연관된 질병 또는 질환 (예를 들어, (i) TFPI를 억제함으로써 치료될 수 있거나, (ii) TFPI를 억제함으로써 개선 또는 예방될 수 있는 증상을 포함하는 질병 또는 질환)의 진단을 허용한다. 대상체에 대한 펩티드의 투여가 바람직하지 않은 경우에, 대상체로부터 생물학적 샘플을 얻고, 본원에 기재된 바와 같이 TFPI-결합 펩티드와 접촉시키고, TFPI-펩티드 복합체를 검출한다.

[0365] 본 발명의 펩티드는 TFPI에 결합하고, 따라서, 생물학적 샘플 (예를 들어, 생물학적 유체, 예를 들어 혈청), 발효 추출물, 조직 제제, 배양 배지 등으로부터 TFPI 또는 재조합 TFPI를 정제하기 위해 유용하다. 본 발명은 TFPI의 상업적인 생산에서 또는 TFPI 분자의 특성 결정 방법에서 TFPI-결합을 이용하는 방법을 포함한다. 예를 들어, 본 발명은 TFPI를 정제하는 방법을 포함한다. 방법은 TFPI를 함유하는 샘플을 TFPI 및 펩티드 사이에서 복합체를 형성시키기 위해 적절한 조건 하에 본원에 규정된 펩티드와 접촉시키고; 샘플로부터 복합체를 제거하고; 임의로 복합체를 해리시켜 TFPI를 방출시키는 것을 포함한다. TFPI 및 펩티드 사이에 복합체를 형성하기 위해 적절한 예시적인 조건은 실시예에 개시되어 있고, 그러한 조건은 TFPI-펩티드 복합체를 해리시키기 위해 쉽게 변형될 수 있다. 일부 실시양태에서, TFPI의 회수를 용이하게 하기 위해 펩티드를 지지체, 예를 들어, 고체 지지체에 고정시킨다. 예를 들어, 하나의 실시양태에서, 펩티드를 크로마토그래피 정지상 (예를 들어, 실리카, 친화도 크로마토그래피 비드, 또는 크로마토그래피 수지)에 고정시키고, TFPI를 포함하는 샘플을 정지상에 적용하여 TFPI-펩티드 복합체를 형성시키고, 나머지 샘플을 정지상으로부터 제거하고, 정지상으로부터 TFPI를 용출시킨다. 이와 관련하여, 본 발명의 펩티드는 하나의 측면에서 친화도 크로마토그래피 기술에서 사용하기 위해 적합하다.

[0366] 응고 인자-결여 대상체에서 트롬빈 형성을 향상시키는 방법을 또한 제공한다. 방법은 대상체에게 TFPI를 억제하기 위해 효과적인 조건 하에 본원에서 제공되는 펩티드를 투여하는 것을 포함한다. 이와 관련하여, TFPI-억제 펩티드는 대상체에서 트롬빈 형성을 향상시키기 위해 효과적인 양으로 효과적인 조건 하에 투여된다. "응고 인자-결여"는 대상체가 트롬빈 형성을 위해 요구되는 하나 이상의 혈액 인자, 예를 들어 FVIII, FIX, 또는 FXI의 결핍으로 고통받는 것을 의미한다. 실제로, 하나의 실시양태에서, 대상체는 FVIII가 결여된다. 별법으로 또는 추가로, 대상체는 인자 IX가 결여된다. 응고 인자 결핍은 임상 샘플 내의 인자의 양을 검사함으로써 확인된다. 당업자는 응고 인자 결핍의 규모에 따라 혈우병을 분류한다. 경증 혈우병에 걸린 대상체는 정상량 (1

U/ml)의 인자 VIII 또는 인자 IX의 약 5% 내지 30%를 갖는다. 중등도 혈우병은 정상 인자 VIII, 인자 IX, 또는 인자 XI 수준의 약 1% 내지 5%를 특징으로 하는 반면, 중증 혈우병이 있는 대상체는 정상량의 인자 VIII, 인자 IX, 또는 인자 XL의 1% 미만을 갖는다. 결핍은 활성화된 부분 트롬보플라스틴 시간 (APTT) 시험에 의해 간접적으로 확인할 수 있다. APTT 시험은 혈병이 형성하기 위해 요구되는 시간의 길이를 측정하고, 상기 시간은 정상 응고 인자 수준을 갖는 환자에 비해 인자 VIII 결핍 (혈우병 A), 인자 LX 결핍 (혈우병 B), 및 인자 XI 결핍 (혈우병 C)이 있는 환자에 대해 더 길다. 중증 및 중등도 인자 VIII 결핍이 있는 환자의 거의 100%는 APTT를 이용하여 진단될 수 있다. 본 발명은 응고 인자 결핍으로 고통받지 않는 대상체에서 트롬빈 형성을 향상시키는 것을 추가로 포함한다. 방법은 대상체 (예를 들어, 정상, 생리학적 수준의 응고 인자를 갖는 대상체)에게 본원에서 제공되는 펩티드를, 트롬빈 형성을 향상시키기 위해 효과적인 조건 하에 투여하는 것을 포함한다.

[0367] 하나의 측면에서, TFPI-억제 펩티드는 대상체에서 혈병 형성을 증가시키기 위해 사용된다. 혈병 형성을 증가시키는 방법은 대상체에게 본원에 기재된 펩티드를, 혈병 형성을 증가시키기 위해 효과적인 양으로 효과적인 조건 하에 투여하는 것을 포함한다. 방법은 유익한 (예를 들어, 치료) 효과를 달성하기 위해 응고 케스케이드를 완전히 회복시킬 필요가 없음이 이해될 것이다. 응고 인자 결핍과 연관된 증상의 발병 또는 심도를 감소시키는, 트롬빈 또는 혈병 형성의 임의의 향상 또는 증가가 고려된다. 트롬빈 형성 및 혈액 응고를 촉진하는데 있어서 방법의 효능을 결정하는 방법은 당업계에 공지되고 본원에 기재되어 있다.

[0368] 본 발명은 대상체에게 하나 이상의 TFPI-억제 펩티드, 예를 들어 임의의 하나 이상의 본원에 기재된 펩티드를, 대상체에서 혈액 응고 질환을 치료하기 위해 효과적인 양으로 효과적인 조건 하에 투여하는 것을 포함하는, 대상체에서 혈액 응고 질환을 치료하는 방법을 추가로 포함한다. 하나의 측면에서, 펩티드는 TFPI 활성을 억제하는 천연 펩티드가 아니다. "응고 질환"은 결여 혈액 응고 인자 활성 및 결여 혈소판 활성에 의해 유발된 출혈 질환을 포함한다. 혈액 응고 인자는 인자 V (FV), FVII, FVIII, FIX, FX, FXI, FXIII, FII (저프로트롬빈혈증의 원인), 및 폰 빌레브란트 (von Willebrand) 인자를 포함하고 이로 제한되지 않는다. 인자 결핍은 예를 들어, 인자의 단축된 생체내-반감기, 인자의 변경된 결합 특성, 인자의 유전자 결함, 및 인자의 감소된 혈장 농도에 의해 유발된다. 응고 질환은 선천성이거나 후천성일 수 있다. 잠재적인 유전자 결함은 응고 인자를 코딩하는 뉴클레오티드 서열 내의 결실, 부가 및/또는 치환을 포함하고, 그의 부재, 존재 및/또는 치환은 각각 응고 인자의 활성에 부정적인 영향을 미친다. 응고 질환은 또한 응고 인자에 대한 억제제 또는 자가면역성 (예를 들어, 항체)의 발생으로부터 기인한다. 한 예에서, 응고 질환은 혈우병 A이다. 별법으로, 응고 질환은 혈우병 B 또는 혈우병 C이다.

[0369] 혈소판 질환은 순환계 내의 혈소판 기능 결여 또는 비정상적으로 낮은 혈소판 수치에 의해 유발된다. 낮은 혈소판 수치는 예를 들어 생산 부족, 혈소판 격리, 또는 비제어된 개방성 파괴 (patent destruction)에 의한 것일 수 있다. 혈소판감소증 (혈소판 결핍)은 화학요법 및 다른 약물 요법, 방사선요법, 수술, 사고에 의한 실혈, 및 다른 질병 상태를 포함한 다양한 이유로 존재할 수 있다. 혈소판감소증을 수반하는 예시적인 질병 상태는 다음과 같다: 재생불량성 빈혈; 유방암과 연관된 특발성 혈소판감소성 자색반증을 포함한 특발성 또는 면역 혈소판감소증 (ITP); HIV-연관 ITP 및 HIV-관련 혈전성 혈소판감소성 자색반증; 혈소판감소증을 야기하는 전이성 종양; 신생아 루푸스 증후군 비장 비대를 포함하는 전신 홍반 루푸스; 판코니 (Fanconi) 증후군; 비타민 B12 결핍; 엽산 결핍; 메이-헤글린 이상 (May-Hegglin anomaly); 비스코트-올드리치 (Wiskott-Aldrich) 증후군; 만성 간 질환; 혈소판감소증과 연관된 골수이형성 증후군; 발작성 야간 혈색소뇨증; C7E3 Fab (압식시맙 (Abciximab)) 요법 후의 급성 최중증 혈소판감소증; 모성 동종면역 혈소판감소증을 포함하는 동종면역 혈소판감소증; 항인지질 항체 및 혈전증과 연관된 혈소판감소증; 자가면역 혈소판감소증; 카르보플라틴-유도된 혈소판감소증 및 헤파린-유도된 혈소판감소증을 포함하는 약물-유도된 면역 혈소판감소증; 태아 혈소판감소증; 임신성 혈소판감소증; 휴스 (Hughes) 증후군; 루푸스양 혈소판감소증; 사고에 의한 및/또는 대량 실혈; 골수증식 질환; 악성종양이 있는 환자에서 혈소판감소증; 암 환자에서 혈전성 혈소판감소성 자색반증/용혈성 요독 증후군으로서 나타나는 혈전성 미세혈관병증을 포함하는 혈전성 혈소판감소증 자색반증; 수혈후 자색반증 (PTP); 자가면역 용혈성 빈혈; 육안으로 보이지 않는 공장 게실 천공; 진정 적혈구계 무형성증; 자가면역 혈소판감소증; 유행성 신장병증; 리팜피신-연관 급성 신 부전증; 파리-트루소 (Paris-Trousseau) 혈소판감소증; 신생아 동종면역 혈소판감소증; 발작성 야간 혈색소뇨증; 위암에서 혈액학적 변화; 용혈성 요독 증후군 (예를 들어, 아동의 요독성 병태); 및 A형 간염 바이러스를 포함한 바이러스 감염에 관련된 혈액학적 소견 및 CMV-연관 혈소판감소증. 혈소판 질환은 또한 폰 빌레브란트 질병, 부신생물 혈소판 기능이상, 글란즈만 (Glanzman) 혈소판 기능 저하증, 및 베르나르-술리에 (Bernard-Soulier) 질병을 포함하고 이로 제한되지 않는다. TFPI-억제 펩티드로 치료될 수 있는 추가의 출혈 질환은 외상에 의해 유발되는 출혈 병태; 하나 이상의 접촉 인자, 예를 들어 FXI, FXII, 프레칼리크레인 및 고분자량 키니노겐 (HMWK)의 결핍; 비타민 K 결핍; 섬유소원 (fibrinogen) 질환, 예를 들어 무섬유

소원혈증, 저섬유소원혈증 및 이상섬유소원혈증; 및 알파2-항플라스민 결핍을 포함하고 이로 제한되지 않는다. 하나의 실시양태에서, TFPI-억제 펩티드는 과도한 출혈, 예를 들어 수술, 외상, 뇌내 출혈, 간 질병, 신장 질병, 혈소판감소증, 혈소판 기능이상, 혈종, 내부 출혈, 출혈성 관절증, 체온저하, 월경, 임신 및 뎅기 출혈열에 의해 유발된 과도한 출혈을 치료하기 위해 사용된다. 상기한 모든 질환은 본원의 개시내용의 문맥에서 "혈액 응고 질환"으로 간주된다.

[0370] 하나의 측면에서, 본 발명의 TFPI-억제 펩티드는 대상체에서 하나 이상의 항응고제의 효과를 (전적으로 또는 부분적으로) 역전시키기 위해 사용된다. 수많은 항응고제가 당업계에 공지되어 있고, 예를 들어 헤파린; 쿠마린 유도체, 예를 들어 와파린 또는 디쿠마롤; TFPI; AT III; 루푸스 항응고제; 선충 항응고제 펩티드 (NAPc2); FVIIa 억제제; 활성-부위 차단된 FVIIa (FVIIai); 활성-부위 차단된 FIXa (FIXai); FIXa 억제제; FXa 억제제, 예를 들어 폰다파리눅스, 이드라파리눅스, DX-9065a, 및 라작사반 (DPC906); 활성-부위 차단된 FXa (FXai); FVa 또는 FVIIIa의 억제제, 예를 들어 활성화된 단백질 C (APC) 및 가용성 트롬보모둘린; 트롬빈 억제제, 예를 들어 히루딘, 비발리루딘, 아르가트로반 및 시멜라가트란 (ximelagatran); 및 응고 인자 (예를 들어, FV, FVII, FVIII, FIX, FX, FXIII, FII, FXI, FXII, 폰 빌레브란트 인자, 프레칼리크레인, 또는 고분자량 키니노겐 (HMWK))에 결합하는 항체 또는 항체 단편을 포함한다.

[0371] 본원에서 사용될 때, "치료하는" 및 "치료"는 혈액 응고 질환과 연관된 증상의 심도 및/또는 발병의 임의의 감소를 나타낸다. 따라서, "치료하는" 및 "치료"는 치료 및 예방 조치를 포함한다. 당업자는 혈액 응고 질환 또는 그와 연관된 증상으로부터 임의의 정도의 보호 또는 그의 개선이 대상체, 예를 들어 인간 환자에게 유익함을 알 것이다. 환자의 삶의 질은 대상체에서 임의의 정도로 증상의 심도를 감소시킴으로써 및/또는 증상의 출현을 지연시킴으로써 개선된다. 따라서, 하나의 측면에서, 방법은 대상체가 혈액 응고 질환을 발병할 위험이 있는지 결정된 (예를 들어, 응고 인자 (예를 들어, FVIII, FIX, 또는 FXI)의 결핍이 검출된) 후 가능한 빨리 또는혈액 응고 질환 (예를 들어, 혈우병 A, 혈우병 B, 또는 혈우병 C)이 검출된 후 가능한 빨리 수행한다. 추가의 측면에서, 펩티드는 전적으로 또는 부분적으로 손상 또는 수술 동안 과도한 실혈에 대해 보호하기 위해 투여된다.

[0372] 위와 관련하여, 본 발명은 대상체의 치료 방법, 예를 들어 TFPI의 억제가 유익한 질병의 치료를 위한 방법에서 사용하기 위한 펩티드를 제공한다. 하나의 측면에서, 질병 또는 질환은 혈액 응고 질환이다. 대상체는 질병 또는 질환에 걸리거나 질병 또는 질환 (또는 유해한 생물학적 사건, 예를 들어 과도한 실혈)에 걸릴 위험이 있다. 방법은 대상체에게 본 발명의 펩티드를, 질병 또는 질환을 전적으로 또는 부분적으로 치료 또는 예방하기 위해 효과적인 양으로 효과적인 조건 하에 투여하는 것을 포함한다. 본 발명은 의약의 제조에 사용하기 위한 펩티드를 추가로 제공한다. 예를 들어, 펩티드는 본원에 상세히 설명된 바와 같이 혈액 응고 질환의 치료용 의약의 제조에서 사용될 수 있다.

[0373] 일부 실시양태에서, 대상체에게 본 발명의 TFPI-결합 펩티드 (예를 들어, TFPI-억제 펩티드)를 코딩하는 핵산 서열을 포함하는 핵산을 투여하는 것이 유리하다. 상기 핵산은 하나의 측면에서 TFPI-억제 펩티드 대신에 또는 그에 추가로 제공된다. 발현 벡터, 핵산 조절 서열, 투여 방법 등은 본원에서 추가로 설명되고 미국 특허 공개 20030045498에 기재되어 있다.

[0374] 특정 대상체에 대한 특정 투여 요법은 부분적으로, 사용되는 본 발명의 TFPI-억제 펩티드, 투여되는 TFPI-결합 펩티드 (예를 들어, TFPI-억제 펩티드)의 양, 투여 경로, 치료되는 특정 질병, 수여체에 관련한 고려사항, 및 임의의 부작용의 원인 및 정도에 따라 결정될 것이다. 대상체 (예를 들어, 포유동물, 예를 들어 인간)에게 투여되는 펩티드의 양 및 투여의 조건 (예를 들어, 투여 시기, 투여 경로, 투여 요법)은 합리적인 시간 틀에 걸쳐 목적하는 생물학적 반응을 일으키기 위해 충분하다. 투여량은 대개 다양한 인자, 예를 들어 사용된 특정 TFPI-억제 펩티드, 대상체의 연령 및 체중, 및 대상체에서 임의의 질병 또는 질환의 존재 및 심도에 따라 결정된다. 용량의 크기는 또한 투여 경로, 시기 및 빈도에 의해 결정될 것이다. 따라서, 임상의는 최적 치료 효과를 얻기 위해 투여량을 적정하고 투여 경로를 변형할 수 있고, 통상적인 범위 탐색 기술은 당업자에게 공지되어 있다. 순수하게 예시로서, 하나의 측면에서, 방법은 상기 언급된 인자에 따라 예를 들어, 약 0.1 ㎍/kg 내지 약 100 mg/kg 이상을 투여하는 것을 포함한다. 다른 실시양태에서, 투여량은 1 ㎍/kg 내지 약 75 mg/kg; 또는 5 ㎍/kg 내지 약 50 mg/kg; 또는 10 ㎍/kg 내지 약 20 mg/kg 범위일 수 있다. 특정 실시양태에서, 용량은 약 0.5 mg/kg 내지 약 20 mg/kg (예를 들어, 약 1 mg/kg, 1.5 mg/kg, 2 mg/kg, 2.3 mg/kg, 2.5 mg/kg, 3 mg/kg, 3.5 mg/kg, 4 mg/kg, 4.5 mg/kg, 5 mg/kg, 5.5 mg/kg, 6 mg/kg, 6.5 mg/kg, 7 mg/kg, 8 mg/kg, 9 mg/kg, 또는 10 mg/kg)의 펩티드를 포함한다. 많은 혈액 응고 질환의 만성 성질을 감안하면, 대상체는 수주, 수개월, 또는 수년 지속하는 치료 과정에 걸쳐 TFPI-억제 펩티드를 투여받을 것이고 매일 또는 매주 1회 이상의 용량을 필요로 할 수 있을 것임이 생각된다. 다른 실시양태에서, TFPI-억제 펩티드는 급성 병태 (예를 들어, 수술 또는 외상

에 의해 유발된 출혈, 또는 응고 대체 요법을 투여받는 대상체에서 인자 억제제/자가면역 에피소드)를 치료하기 위해 비교적 짧은 치료 기간, 예를 들어, 1 내지 14일 동안 투여된다.

[0375] 본원에 기재된 펩티드를 포함하는 생리학상 허용되는 조성물, 예를 들어 제약 조성물을 투여하는 적합한 방법은 당업계에 공지되어 있다. 펩티드를 투여하기 위해 하나 초과의 경로가 사용될 수 있지만, 특정 경로가 다른 경로보다 더 즉각적이고 더 효과적인 반응을 제공할 수 있다. 환경에 따라, 제약 조성물을 체강 내로 적용 또는 주입하고/하거나, 피부 또는 점막을 통해 흡수시키고/시키거나, 섭취하고/하거나, 흡입하고/하거나 순환계 내로 도입시킨다. 하나의 측면에서, TFPI-억제 펩티드를 포함하는 조성물은 본 발명의 펩티드를 순환계 내로 도입하기 위해 정맥내, 동맥내, 또는 복강내 투여한다. 비-정맥내 투여가 또한 특히 저분자량 치료제에 관련하여 적절하다. 특정 환경에서, TFPI-억제 펩티드를 포함하는 제약 조성물을 경구로, 국소로, 설하로, 질로, 직장으로; 뇌내 (뇌실질내), 뇌실내, 근육내, 눈 안, 문맥내, 병변내, 골수내, 경막내, 심실내, 경피, 피하, 코 안, 요도, 또는 장관 수단에 의한 주사를 통해; 지연 방출 시스템에 의해; 또는 이식 장치에 의해 전달하는 것이 바람직하다. 원하는 경우에, TFPI-억제 펩티드를, 관심있는 구역에 공급하는 동맥내 또는 정맥내 투여를 통해, 예를 들어, 다리에 전달하기 위해 대퇴 동맥을 통해 영역별로 투여한다. 하나의 실시양태에서, 펩티드는 예를 들어, 미국 특허 5,439,686 및 5,498,421, 및 미국 특허 공개 2003/0059474, 2003/0064033, 2004/0043077, 2005/0048127, 2005/0170005, 2005/0142205, 2005/142201, 2005/0233945, 2005/0147689. 2005/0142206, 2006/0024379, 2006/0260777, 2007/0207210, 2007/0092452, 2007/0281031, 및 2008/0026068에 기재되어 있는 바와 같이 미세입자 내로 포함된다. 별법으로, 조성물은 그 위에 목적하는 분자가 흡수되거나 또는 캡슐화되어 있는 막, 스폰지, 또는 다른 적절한 물질의 이식을 통해 투여된다. 이식 장치가 사용되는 경우에, 장치는 하나의 측면에서 임의의 적합한 조직 내로 이식되고, 목적하는 분자의 전달은 다양한 측면에서 확산, 적기 (timed)-방출 볼러스, 또는 연속 투여를 통해 이루어진다. 다른 측면에서, TFPI-억제 펩티드는 수술 절차 또는 손상의 치료 동안 노출된 조직에 직접 투여되거나, 혈액 절차의 수혈을 통해 투여된다. 치료 전달 방안은 당업자에게 잘 공지되어 있고, 그 일부는 예를 들어 미국 특허 5,399,363에 추가로 기재되어 있다.

[0376] 투여를 용이하게 하기 위해, TFPI-결합 펩티드 (예를 들어, TFPI-억제 펩티드)는 하나의 실시양태에서 담체 (즉, 비히클, 보조제, 버퍼 또는 희석제)를 포함하는 생리학상 허용되는 조성물 내로 제형화된다. 사용된 특정 담체는 단지 화학-물리학적 고려사항, 예를 들어 용해도 및 펩티드와의 반응성의 결핍에 의해, 및 투여 경로에 의해 제한된다. 생리학상 허용되는 담체는 당업계에 공지되어 있다. 주사가능한 용도에 적합한 예시적인 제약 형태는 비제한적으로 멸균 수성 용액 또는 분산액, 및 멸균 주사가능 용액 또는 분산액의 즉석 제조를 위한 멸균 분말을 포함한다 (예를 들어, 미국 특허 5,466,468 참조). 주사가능한 제형은 예를 들어 문헌 [Pharmaceutics and Pharmacy Practice, J.B. Lippincott Co., Philadelphia. Pa., Banker and Chalmers, eds., pages 238-250 (1982)], 및 [ASHP Handbook on Injectable Drugs, Toissel, 4th ed., pages 622-630 (1986)]에 추가로 기재되어 있다. 본원에서 제공되는 펩티드를 포함하는 제약 조성물은 임의로 그러한 제약 조성물의 사용에 관한 지시를 제공하는 충전 물질과 함께 용기 내에 배치된다. 일반적으로, 그러한 지시는 시약 농도를 설명하는 확실한 표현, 및 특정 실시양태에서 제약 조성물을 구성하기 위해 필요할 수 있는 부형제 성분 또는 희석제의 상대적인 양을 포함한다.

[0377] 적절한 경우에, 본 발명의 TFPI-결합 펩티드 (예를 들어, TFPI-억제 펩티드)는 추가의 또는 증대된 생물학적 효과를 달성하기 위해 다른 물질 및/또는 다른 치료 양상과 조합으로 투여된다. 동시-치료제는 혈장-유래된 또는 재조합 응고 인자, 혈우병 예방 치료제, 면역억제제, 혈장 인자-억제 항체 길항제 (즉, 항-억제제), 항섬유소용해제, 항생제, 호르몬 요법, 소염제 (예를 들어, 비-스테로이드성 소염 약물 (NSAID) 또는 스테로이드성 소염 물질), 응고촉진제 및 진통제를 포함하고 이로 제한되지 않는다. 하나의 측면에서, 방법은 대상체에 대한 예를 들어, FXIII, FXII, FXI (예를 들어, 헤몰레벤 (HEMOLEVEN)® (라보라트와 프라세 디 프락시온먼 에 데 비오테크놀로지 (Laboratoire francais du Fractionnement et des Biotechnologies, 프랑스 레 쥘리)) 및 FXI 농축물 (바이오프로덕츠 래보러토리 (BioProducts Laboratory, 영국 허트포드셔 엘스트리)), FX, FIX (예를 들어, 베네픽스 (BENEFIX)® 응고 인자 IX (와이어쓰 (Wyeth, 미국 뉴저지주 메디슨); 알파닌 (ALPHANINE)® SD (그리폴스 (Grifols, 미국 캘리포니아주 로스앤젤레스)); 모노닌 (MONONINE)® (씨에스엘 베링 (CSL Behring, 미국 펜실베니아주 킹 오브 프러시아)); 베불린 (BEBULIN)-VH™ (박스터 (Baxter, 미국 일리노이주 디어필드)); 프로필린 (PROFILNINE)® SD (그리폴스, 미국 캘리포니아주 로스앤젤레스); 또는 프로플렉스 (PROPLEX) T™ (박스터, 미국 일리노이주 디어필드), FVIII (예를 들어, 애드베이트 (ADVATE)™ (박스터, 미국 일리노이주 디어필드); 헬릭세이트 (HELIXATE)® FS (씨에스엘 베링, 미국 펜실베니아주 킹 오브 프러시아); 레팍토 (REFACTO)® (와이어쓰, 미국 뉴저지주 메디슨), 진타 (XYNTHA)™ (와이어쓰, 미국 뉴저지주 메디슨), 코게네이트 (KOGENATE)® 및 코게네이트® FS (바이엘 (Bayer, 미국 펜실베니아주 피츠버그)); 알파네이트 (ALPHANAT

E)® (그리폴스, 미국 캘리포니아주 로스앤젤레스); 헤모필 (HEMOPHIL) M™ (박스터, 미국 일리노이주 디어필드); 코에이트 (KOATE)®-DVI (탈레크리스 바이오써라퓨틱스-유에스에이 (Talecris Biotherapeutics-USA, 미국 노쓰캐롤라이나주 리써치 트라이앵글 파크)); 또는 모나크 (MONARC)-M™ (박스터, 미국 일리노이주 디어필드), FVIIa (예를 들어, 노보세븐 (NOVOSEVEN)® FVIIa (노보 노디스크 (Novo Nordisk, 미국 뉴저지주 프린스턴) 및 FVII 농축물 (박스터 바이오사이언스 (Baxter Bioscience, 오스트리아 비엔나), 또는 바이오프로덕츠 래보러토리 (영국 허트포드셔 엘스트리)), FV, FVa, FII, 및/또는 FIIa의 투여를 수반하는 전통적인 대체 인자 치료 요법에 대한 부가 요법이다. 일부 경우에, 대상체는 또한 인자 VIII 억제제 우회 활성을 갖는 동결건조된 멸균 인간 혈장 분획인 FEIBA VH Immuno™ (박스터 바이오사이언스, 오스트리아 비엔나)를 투여받는다. FEIBA VH Immuno™은 거의 동일한 단위의 인자 VIII 억제제 우회 활성 및 프로트롬빈 복합체 인자 (인자 II, VII, IX, 및 X와 단백질 C)를 함유한다. 다른 예시적인 동시-치료제는 프레칼리크레인, 고분자량 키니노겐 (HMWK), 폰 빌레브란트 인자, 조직 인자, 및 트롬빈을 포함하고 이로 제한되지 않는다. 별법으로 또는 추가로, TFPI-억제 펩티드는 하나 이상의 상이한 TFPI-억제 펩티드와 동시-제형화된다.

[0378] 따라서, 본 발명은 대상체에게 본 발명의 TFPI-결합 펩티드 (예를 들어, TFPI-억제 펩티드) (또는 다수의 TFPI-억제 펩티드)를, 각각 그 의약에 대해 적합한 요법에 따라 투여되는 하나 이상의 추가의 적합한 물질(들)과 조합으로 투여하는 것을 포함한다. 투여 전략은 TFPI-억제 펩티드 및 하나 이상의 추가로 적합한 물질(들)의 동시 투여 (즉, 실질적인 동시 투여) 및 비-동시 투여 (즉, 상이한 시간에 임의의 순서로 (겹치든가 그렇지 않든가) 투여)를 포함한다. 상이한 성분들은 임의로 동일한 조성물 또는 별개의 조성물 내에서 및 동일한 또는 상이한 투여 경로에 의해 투여됨이 이해될 것이다.

[0379] 일부 실시양태에서, 본 발명의 펩티드는 모이어티, 예를 들어, 치료 또는 진단 모이어티, 예를 들어 검출 모이어티 및 상기 설명된 동시-치료제에 접합된다. 별법으로 또는 추가로, 펩티드는 (a) 펩티드에 결합하고 (b) 치료 활성이고/이거나 상호작용 파트너 (예를 들어, 치료제, 진단제 또는 검출제)에 추가의 기능성을 제공하는 모이어티에 연결된 상호작용 파트너 (예를 들어, 항체, 항체 단편, 안티칼린, 앱타머, 또는 스피겔머)와 조합으로 투여된다. 적합한 모이어티는 염료, 방사성 핵종, 방사성 핵종-함유 복합체, 효소, 독소, 항체, 항체 단편, 및 세포독성제을 포함하고 이로 제한되지 않고, 일부 경우에 모이어티는 치료 활성을 갖는다 (즉, 유익한 또는 목적하는 생물학적 효과를 달성한다). 펩티드 접합체 또는 펩티드-상호작용 파트너 쌍은 본원에 기재된 임의의 방법, 예를 들어 질병 또는 질환에 걸린 또는 질병 또는 질환에 걸릴 위험이 있는 대상체의 치료 방법에 사용하기 위해 적합하다.

[0380] 본 명세서에서 인용되는 모든 공개문, 특허 및 특허 출원은 각각의 개별 공개문 또는 특허 출원이 구체적으로 및 개별적으로 참고로 포함되는 것으로 지시되는 것처럼 본원에 참고로 포함된다. 또한, 전체 문서는 통합된 개시내용으로서 관련되는 것으로 의도되고, 본원에 기재된 특징의 모든 조합은 특징의 조합이 상기 문서의 동일한 문장, 또는 단락, 또는 절에서 함께 발견되지 않는 경우에도 고려됨을 이해하여야 한다. 예를 들어, 단백질 요법이 설명되는 경우, 폴리뉴클레오티드 요법 (단백질을 코딩하는 폴리뉴클레오티드/벡터를 사용)을 수반하는 실시양태가 구체적으로 고려되고, 그 반대의 경우도 고려된다. 상기한 발명을 명확한 이해를 위해 예시 및 예를 통해 다소 상세하게 설명하였지만, 본 발명의 교시내용에 비추어 첨부된 청구의 범위 또는 취지로부터 벗어나지 않으면서 본 발명에 대한 특정 변화 및 변형이 가능할 수 있음이 당업자에게 쉽게 자명해질 것이다. 본 발명은 예를 들어 상기 구체적으로 언급된 변동보다 임의의 방식으로 그 범위가 더 좁은 본 발명의 모든 실시양태를 포함한다. 속으로서 설명된 본 발명의 측면에 관하여, 모든 개별적인 종은 본 발명의 별개의 측면으로 개별적으로 간주된다. 단수 ("a" 또는 "an")를 설명하거나 그를 사용하여 청구된 본 발명의 측면에 관하여, 문맥이 보다 제한적인 의미를 분명하게 요구하지 않는다면, 이들 용어가 "하나 이상"을 의미함을 이해해야 한다. 세트 내의 하나 이상으로 설명된 요소에 관하여, 세트 내의 모든 조합이 고려됨을 이해해야 한다.

[0381] **실시예**

[0382] 실시예 1

[0383] 다음 실시예는 펩티드의 생산, 확인, 및 TFPI에 대한 결합에 대한 스크리닝을 설명한다.

[0384] 펩티드 후보를 상업 공급자 (예를 들어, 폴리펩티드 래보래토리스 에스에이에스 (PolyPeptide Laboratories SAS, 프랑스 스트라스부르) 및 제이피티 펩티드 테크놀로지스 게엠베하 (JPT Peptide Technologies GmbH, 독일 베를린))로부터 입수하였다. 후보 펩티드의 합성 방법은 상기 제공된다. 후보 펩티드는 트리플루오로아세테이트 (TFA) 염으로서 순도 >90% 또는 >60%로 합성하였다. 모든 펩티드를 DMSO 내에 10 mM의 원액 농도로 용해시켰다. TFPI-결합 펩티드 서열은 mRNA 디스플레이 라이브러리를 이용하여 확인하였다. mRNA 디스플레이 기술은

출발 풀 (pool) 내에서 10^{14}개의 상이한 서열의 다양성을 허용하고, 예를 들어, 파지 디스플레이를 위해 요구되는 생체내 단계를 피하므로 다른 라이브러리 스크리닝 기술보다 우월하다. 간단히 설명하면, 기술은 mRNA를 푸로마이신 분자를 통해 그의 코딩된 후보 펩티드에 직접 연결하는 것을 포함한다 (도 5). mRNA 디스플레이 방법은 국제 특허 출원 공개 WO 2005/051985 및 문헌 [Liu et al., Methods in Enzymology, 318, 268-293 (2000)]에 추가로 설명되어 있다. TFPI를 비오틴을 통해 고체 지지체에 고정시키고, 후보 펩티드-RNA 복합체에 노출시켰다. TFPI-결합된 후보 펩티드-RNA 복합체를 단리하고, RNA 역전사를 수행하여 코딩 DNA를 얻었다. 고친화도 바인더 (binder)는 경쟁적 회피 (elusion) 전략을 이용하여 6 내지 10회 선택 라운드 후에 얻었다. 많은 후보 펩티드는 길이가 31개 아미노산 (27개의 무작위로 선정된 아미노산 및 두 말단에 인접하는 2개의 아미노산)이었다.

[0385] 선택된 펩티드를 합성하고, TFPI-결합 친화도를 보유하는 펩티드 단편을 확인하기 위해 미세어레이-기반 스캔 분석을 사용하여 펩티드 최적화에 적용하였다. 예를 들어, JBT0047의 미세어레이-기반 스캔은 그 서열이 19개 아미노산에 의해 중복되는 펩티드의 일련의 20개 아미노산 단편을 사용하여 수행하였다. N- 및 C-말단 절단 분석을 수행하여 스캔 분석을 보충하였다. 미세어레이 스캔 결과는 펩티드 JBT0293이 TFPI에 최고 친화도로 결합함을 보여주었다. JBT0293의 아미노산 서열에 기초한 일련의 치환 돌연변이체를 생성하고, TFPI 결합 특성에 대해 시험하였다.

[0386] TFPI에 대한 하위세트 펩티드의 친화도를 비오티닐화 펩티드를 사용하여 수행된 효소 연결 면역흡착 분석 (ELISA)-유사 분석 (결합 (EC_{50}) ELISA)을 통해 입증하였다. 96 웰 맥시소프 (Maxisorp) 플레이트 (넝크 (Nunc))를 코팅 버퍼 (15 mM Na_2CO_3, 35 mM $NaHCO_3$, pH 9.6) 중의 3 ㎍/mL TFPI로 밤새 코팅하였다. 플레이트를 350 ㎕ 세척 버퍼 (HNaT: 175 mM NaCl, 25 mM HEPES, 5 mM $CaCl_2$, 0.1% Tween 80, pH 7.35)로 3회 세척하고, 후속적으로 2시간 동안 HNaT 중의 2% 효모 추출물 200 ㎕로 차단하였다. 이어서, 플레이트를 350 ㎕ HNaT로 3회 세척하였다. 비오티닐화된 후보 펩티드를 DMSO 원액으로부터 HNaT 중에 1/200로 희석하였다. 10 mM 펩티드 원액 용액의 1/200 희석 동안 침전물이 나타나지 않으면, 초기 펩티드 농도는 50 μM이었다. 침전물이 형성될 경우에, DMSO 중의 펩티드 원액의 예비-희석을 수행하였다. 희석된 펩티드를 맥시소프 플레이트에 적용하고, 연속 희석액 (1/3)을 생성하고, 희석액을 1.5시간 동안 실온에서 인큐베이팅하였다. 인큐베이션 후에 3회 세척 단계 (350 ㎕ HNaT)를 수행하였다. 결합된 펩티드는 호스래디시 (horseradish) 퍼옥시다제-접합된 스트렙타비딘과 함께 인큐베이션(1시간)한 후 HNaT를 사용한 3회의 세척 단계 및 첨가된 TMB (3,3',5,5'-테트라메틸벤지딘)의 후속적인 발색 전환에 의해 검출하였다. 분석을 도 6a에 예시한다.

[0387] 일반적으로, 고정된 TFPI에 대한 펩티드 결합은 배경보다 유의하게 더 높았다. 비오티닐화 펩티드에 대한 EC_{50} 값을 도 32-39에 제공한다. 하나의 TFPI-결합 펩티드, JBT0132의 결합 곡선을 도 7에 도시한다. JBT0132의 EC_{50}은 약 2.2 nM인 것으로 계산되었다.

[0388] 또한, 경쟁 (IC_{50}) ELISA는 TFPI-결합을 위해 비-비오티닐화 후보 펩티드와 경쟁하도록 "추적자 (tracer)"로서 비오티닐화 TFPI-결합 펩티드를 사용하여 수행하였다. 분석 원리를 도 6b에 도시한다. 96 웰 맥시소프 플레이트 (넝크)를 코팅 버퍼 (15 mM Na_2CO_3, 35 mM $NaHCO_3$, pH 9.6) 중의 3 ㎍/mL TFPI로 밤새 코팅하였다. 플레이트를 350 ㎕ 세척 버퍼 (HNaT: 175 mM NaCl, 25 mM HEPES, 5 mM $CaCl_2$, 0.1% Tween 80, pH 7.35)로 3회 세척하고, 2시간 동안 HNaT 중의 2% 효모 추출물 200 ㎕로 차단하였다. 이어서, 플레이트를 350 ㎕ HNaT로 3회 세척하였다. 비오티닐화된 추적자 펩티드를 결합 ELISA에서 결정된 그의 각각의 EC_{90} 값 (n > 2이면 중앙값)에 대응하는 농도로 적용하였다. 펩티드의 경쟁자 원액 용액 (10 mM)을 HSA가 없는 HNaT 중에 1/33.3으로 희석하고, 3% DMSO가 있는 HNaT로 연속 1/3 희석액을 제조하였다. 희석액을 비오티닐화 추적자 펩티드로 1:6의 비로 (20 ㎕ 경쟁자 희석액 및 100 ㎕ 추적자 펩티드) 추가로 희석하였다. 경쟁자 및 추적자 펩티드의 혼합물을 TFPI-코팅된 미세적정 플레이트에 적용하고, 1.5시간 동안 인큐베이팅하였다. 플레이트를 350 ㎕ HNaT로 3회 세척하였다. 펩티드-TFPI 결합은 HRP-접합된 스트렙타비딘을 미세적정 플레이트에 적용하고, 혼합물을 1시간 동안 인큐베이팅하고, 플레이트를 350 ㎕ HNaT로 3회 세척하고, TMB (3,3',5,5'-테트라메틸벤지딘)를 적용하고, HRP에 의한 TMB의 후속적인 발색 전환을 검출함으로써 검출하였다. 대표적인 비-비오티닐화 펩티드에 대한 IC_{50} 그래프를 도 8a-8d에 제공한다. 펩티드 JBT0303, JBT0120 및 JBT0224의 IC_{50} 측정치를 표 3에 제시한다.

표 3

[0389]

펩티드	IC_{50} [μM]	n	SD	추적자 펩티드	추적자 농도 [μM]
JBT0303	0.119	2	0.064	JBT0131	0.0409
JBT0120	0.0189	3	0.0044	JBT0124	0.0718
JBT0224	n.a.	1		JBT0126	0.240

[0390] 경쟁 ELISA (IC_{50}) 분석에 추가로, 보다 많은 수의 펩티드를 평행하게 측정하기 위해 스크리닝 분석을 사용하였다. 스크리닝 ELISA는 단지 3개의 상이한 농도의 경쟁자 (JBT0047 클래스에 대해 300 nM, 100 nM 및 33.3 nM, 및 JBT0122 클래스에 대해 50000 nM, 16667 nM 및 5556 nM)를 사용한 것을 제외하고는 경쟁 IC_{50} ELISA와 유사하다. 일부 경우에, 스크리닝 결과는 경쟁적 펩티드에 관련한 추적자 신호의 % 억제로서 표현하였다 (JBT0047 패밀리에 대해 경쟁적 펩티드 JBT0477, 및 JBT0122 패밀리에 대해 경쟁적 펩티드 JBT1697). 본원에 제시된 방법에 따라 제조되고 스크리닝된 펩티드의 경쟁 IC_{50} 분석 결과 및 스크리닝 분석 결과를 도 32-39에 제공한다. 도 32-39에 제시된 평균 IC_{50} 값은 표 3에 제시된 값보다 더 많은 갯수의 분석에 기초한 것이고, 따라서, 값은 약간 다를 수 있다. 스크리닝 ELISA의 결과를 추적자 펩티드 JBT0131 결합의 % 억제로서 제시한다. IC_{50} ELISA를 이용하여 분석한 몇몇 펩티드를 표 4에 제시된 그의 결합 친화도에 따라 도 32-39에서 분류하였다.

표 4

[0391]

TFPI 경쟁 ELISA IC_{50} [nM]	군
< 50 nM	A
50 ≤ x < 100 nM	B
100 ≤ x < 250 nM	C
250 ≤ x < 1000 nM	D
1000 ≤ x < 5000 nM	E
5000 ≤ x < 10000 nM	F
10000 ≤ x < 50000 nM	G

[0392] 본원에 기재된 방법을 이용하여 확인된 예시적인 TFPI-결합 펩티드를 표 5에 제시한다. 일부 펩티드는 비오티닐화되고, 많은 것은 용해도를 촉진하기 위해 N- 및 C-말단 라이신을 포함한다. 몇몇 펩티드는 아래 설명된 바와 같이 모델 및/또는 혈장 분석 시스템에서 TFPI-억제 활성을 보였다.

표 5

[0393]

펩티드	모	서열	서열 번호
	JBT0047	QSKKNVFVFGYFERLRAK	1
JBT0047	JBT0047	Ac-SGVGRLQVAFQSKKNVFVFGYFERLRAKLTS-NH2	253
JBT0051	JBT0047	비오티닐-Ttds-SGVGRLQVAFQSKKNVFVFGYFERLRAKLTS-NH2	962
JBT0055	JBT0047	Ac-SGVGRLQVAFQSKKNVFVFGYFERLRAKLTS-Ttds-Lys(비오티닐)-NH2	963
JBT0131	JBT0047	비오티닐-Ttds-AFQSKKNVFVFGYFERLRAK-NH2	964
JBT0132	JBT0047	비오티닐-Ttds-FQSKKNVFVFGYFERLRAKL-NH2	965
JBT0133	JBT0047	비오티닐-Ttds-QSKKNVFVFGYFERLRAKLT-NH2	966
JBT0155	JBT0047	Ac-KKSGVGRLQVAFQSKKNVFVFGYFERLRAKLTSKK-NH2	8
JBT0158	JBT0047	Ac-KKSGVGRLQVAFQSKKNVFVFGYFERLRAKK-NH2	9
JBT0162	JBT0047	Ac-KKGRLQVAFQSKKNVFVFGYFERLRAKLTSKK-NH2	10
JBT0163	JBT0047	Ac-KKQVAFQSKKNVFVFGYFERLRAKLTSKK-NH2	11
JBT0164	JBT0047	Ac-KKFQSKKNVFVFGYFERLRAKLTSKK-NH2	12
JBT0166	JBT0047	비오티닐-Ttds-KKFQSKKNVFVFGYFERLRAKLKK-NH2	968
JBT0169	JBT0047	Ac-KKAFQSKKNVFVFGYFERLRAKKK-NH2	254
JBT0170	JBT0047	Ac-KKFQSKKNVFVFGYFERLRAKLKK-NH2	13
JBT0171	JBT0047	Ac-KKQSKKNVFVFGYFERLRAKLTKK-NH2	255
JBT0174	JBT0047	Ac-KKAFQSKKNVFVFGYFERLRAKLKK-NH2	14
JBT0175	JBT0047	Ac-KKAFQSKKNVFVFGYFERLRAKLTKK-NH2	182
JBT0293	JBT0047	Ac-FQSKKNVFVFGYFERLRAKL-NH2	256
		$X_3X_4X_5KX_7NVFX_{11}X_{12}GYX_{15}X_{16}RLRAKX_{22}$	2
JBT0294	JBT0047	Ac-YQSKKNVFVFGYFERLRAKL-NH2	257
JBT0295	JBT0047	Ac-FSSKKNVFVFGYFERLRAKL-NH2	713
JBT0296	JBT0047	Ac-FQNKKNVFVFGYFERLRAKL-NH2	407
JBT0297	JBT0047	Ac-FQSKNNVFVFGYFERLRAKL-NH2	183

JBT0298	JBT0047	Ac-FQSKQNVFVFGYFERLRAKL-NH2	747
JBT0299	JBT0047	Ac-FQSKKNVFAFGYFERLRAKL-NH2	408
JBT0300	JBT0047	Ac-FQSKKNVFSFGYFERLRAKL-NH2	409
JBT0301	JBT0047	Ac-FQSKKNVFTFGYFERLRAKL-NH2	470
JBT0302	JBT0047	Ac-FQSKKNVFVAGYFERLRAKL-NH2	258
JBT0303	JBT0047	Ac-FQSKKNVFVDGYFERLRAKL-NH2	184
JBT0304	JBT0047	Ac-FQSKKNVFVLGYFERLRAKL-NH2	259
JBT0305	JBT0047	Ac-FQSKKNVFVQGYFERLRAKL-NH2	260
JBT0306	JBT0047	Ac-FQSKKNVFVSGYFERLRAKL-NH2	185
JBT0307	JBT0047	Ac-FQSKKNVFVYGYFERLRAKL-NH2	261
JBT0308	JBT0047	Ac-FQSKKNVFVFGYKERLRAKL-NH2	411
JBT0309	JBT0047	Ac-FQSKKNVFVFGYYERLRAKL-NH2	412
JBT0310	JBT0047	Ac-FQSKKNVFVFGYFDRLRAKL-NH2	262
JBT0311	JBT0047	Ac-FQSKKNVFVFGYFERLRAKN-NH2	748
		TFVDERLLYFLTIGNMGMYAAQLKF	3
JBT0049	JBT0049	Ac-SGNTFVDERLLYFLTIGNMGMYAAQLKFRTS-NH2	3025
JBT0053	JBT0049	비오티닐-Ttds-SGNTFVDERLLYFLTIGNMGMYAAQLKFRTS-NH2	3006
JBT0057	JBT0049	Ac-SGNTFVDERLLYFLTIGNMGMYAAQLKFRTS-Ttds-라이신(비오틴)-NH2	3018
JBT0190	JBT0049	Ac-KKSGNTFVDERLLYFLTIGNMGMYAAQLKFRTSKK-NH2	3031
JBT0193	JBT0049	Ac-KKSGNTFVDERLLYFLTIGNMGMYAAQLKFKK-NH2	3073
JBT0197	JBT0049	Ac-KKTFVDERLLYFLTIGNMGMYAAQLKFRTSKK-NH2	3076
		VIVFTFRHNKLIGYERRY	4
JBT0050	JBT0050	Ac-SGRGCTKVIVFTFRHNKLIGYERRYNCTS-NH2	3047
JBT0054	JBT0050	비오티닐-Ttds-SGRGCTKVIVFTFRHNKLIGYERRYNCTS-NH2	3002
JBT0058	JBT0050	Ac-SGRGCTKVIVFTFRHNKLIGYERRYNCTS-Ttds-라이신(비오틴)-NH2	3003
JBT0129	JBT0050	Ac-SGRG[CTKVIVFTFRHNKLIGYERRYNC]TS-NH2	3026
JBT0130	JBT0050	비오티닐-Ttds-SGRG[CTKVIVFTFRHNKLIGYERRYNC]TS-NH2	3001
JBT0205	JBT0050	Ac-KKSGRGCTKVIVFTFRHNKLIGYERRYNCTSKK-NH2	3029
JBT0208	JBT0050	Ac-KKSGRGCTKVIVFTFRHNKLIGYERRYNKK-NH2	3027
JBT0211	JBT0050	Ac-KKGCTKVIVFTFRHNKLIGYERRYNCTSKK-NH2	3032
JBT0212	JBT0050	Ac-KKKVIVFTFRHNKLIGYERRYNCTSKK-NH2	3033
JBT0217	JBT0050	Ac-KKTKVIVFTFRHNKLIGYERRYKK-NH2	3062
JBT0218	JBT0050	Ac-KKKVIVFTFRHNKLIGYERRYNKK-NH2	3063
JBT0219	JBT0050	Ac-KKVIVFTFRHNKLIGYERRYNCKK-NH2	3030
		GVWQTHPRYFWTMWPDIKGEVIVLFGT	5
JBT0101	JBT0101	Ac-KKSGVWQTHPRYFWTMWPDIKGEVIVLFGTSKK-NH2	3036
JBT0052	JBT0101	비오티닐-Ttds-KKSGVWQTHPRYFWTMWPDIKGEVIVLFGTSKK-NH2	3004
JBT0103	JBT0101	Ac-KKSGVWQTHPRYFWTMWPDIKGEVIVLFGTS-Ttds-KK-라이신(비오티닐)-NH2	3005
JBT0178	JBT0101	Ac-KKSGVWQTHPRYFWTMWPDIKGEVIVLFGTKK-NH2	3028
JBT0182	JBT0101	Ac-KKGVWQTHPRYFWTMWPDIKGEVIVLFGTSKK-NH2	3037
		KWFCGMRDMKGTMSCVWVKF	6
JBT0120	JBT0120	Ac-SGASRYKWF[CGMRDMKGTMSC]VWVKFRYDTS-NH2	1047
JBT0124		비오티닐-Ttds-SGASRYKWF[CGMRDMKGTMSC]VWVKFRYDTS-NH2	1290
JBT0247	JBT0120	Ac-SGASRYKWFCGMRDMKGTMSCVWVKFRYDTS-NH2	1213
JBT0248	JBT0120	Ac-KKSGASRYKWF[CGMRDMKGTMSC]VWVKFRYDTSKK-NH2	1001
JBT0251	JBT0120	Ac-KKKWFCGMRDMKGTMSCVWVKFKK-NH2	1202
JBT0252	JBT0120	Ac-KKCGMRDMKGTMSCVWVKFRYDKK-NH2	1215
		ASFPLAVQLHVSKRSKEMA	7
JBT0122	JBT0122	Ac-SGYASFPLAVQLHVSKRSKEMALARLYYKTS-NH2	2002
JBT0126	JBT0122	비오티닐-Ttds-SGYASFPLAVQLHVSKRSKEMALARLYYKTS-NH2	2498
JBT0221	JBT0122	Ac-KKSGYASFPLAVQLHVSKRSKEMALARLYYKTSKK-NH2	2003
JBT0224	JBT0122	Ac-KKSGYASFPLAVQLHVSKRSKEMALARLYYKK-NH2	2298
JBT0225	JBT0122	Ac-KKSGYASFPLAVQLHVSKRSKEMALARKK-NH2	2128
JBT0226	JBT0122	Ac-KKSGYASFPLAVQLHVSKRSKEMAKK-NH2	2299
JBT0228	JBT0122	Ac-KKASFPLAVQLHVSKRSKEMALARLYYKTSKK-NH2	2016
JBT0232	JBT0122	Ac-KKGYASFPLAVQLHVSKRSKEMKK-NH2	2303
JBT0233	JBT0122	Ac-KKYASFPLAVQLHVSKRSKEMAKK-NH2	2304

[0394]

[0395] 본 실시예는 TFPI-억제 펩티드를 생성하고 특성 결정하는 예시적인 방법을 제공한다. 표 5의 모든 펩티드는 인간 TFPI-1α에 결합하는 것으로 밝혀졌다. 돌연변이 분석으로 TFPI에 대한 친화도를 유지하면서 TFPI-결합 펩티드 내에서 적어도 하나의 아미노산이 치환될 수 있음을 입증하였다. ELISA 분석에서 시험된 표 5의 펩티드는 TFPI-1α에 10 μM (1×10^{-5} M) 미만의 EC_{50} 및 50 μM 미만의 IC_{50}으로 결합하였다.

[0396] 실시예 2

[0397] 선택된 TFPI-결합 펩티드를 "항-표적" 결합의 면에서 추가로 특성 결정하였다. 본 실시예는 TFPI-억제 펩티드가 비-TFPI-1 단백질에 대해 감소된 친화도를 보임을 입증한다.

[0398] TFPI-1에 대한 유사성 때문에 TFPI-2를 항-표적으로서 선택하였다. 인간 TFPI-1 (C-말단에서 10 His-태그에 융합된 잔기 29-282; MW 41 kDa (R&D 시스템즈 (R&D Systems, 미국 미네소타주 미네아폴리스); 카탈로그 번호 2974-PI)), 쥐 TFPI-1 (C-말단에서 10 His-태그에 융합된 잔기 29-289; MW 41 kDa (R&D 시스템즈; 카탈로그 번호 2975-PI)), 및 TFPI-2 (R&D 시스템즈, 미국 미네소타주 미네아폴리스)에 대한 TFPI-결합 펩티드의 결합 속도를 BIAcore 3000™ 표면 플라즈몬 공명 분석 (지이 헬쓰케어 (GE Healthcare, 영국 찰폰트 세인트 자일즈))을

이용하여 연구하였다. TFPI 단백질을 500 RU를 목표로 하는 아민 커플링 (coupling) 화학에 의해 C1 칩 (지이 헬쓰케어, Order Code: BR-1005-40) 상에 고정시켰다. 몇몇 TFPI-결합 펩티드를 고정된 TFPI 단백질과 상호작용하기 위한 분석물로서 사용하였다. 30 ㎕/min의 유속을 이용하였다. 180초 후에, 180 ㎕의 펩티드 용액을 3.84 nM 내지 656.25 nM 범위의 6개의 상이한 농도로 주입한 후, 480초의 해리 시간을 허용하였다. 45 ㎕ 10 mM NaOH를 사용하여 칩을 재생하였다. 각각의 결합 실험 전후에 HBS-P 버퍼 (10 mM HEPES, pH 7.4, 150 mM NaCl, 0.005% P20) + 1% DMSO 및 0.8% P80를 사용하여 4개의 측정치를 취하였다. BIAevaluation® Version 4.1 소프트웨어 (지이 헬쓰케어)를 이용하여 데이타를 분석하였다. 센소그램을 1:1 랭뮤어 (Langmuir) 결합 곡선에 피팅하여, k_{on} 및 k_{off}를 결정하고 K_D를 계산하였다.

[0399] 블랭크 (blank) 셀에 결합된 몇몇 시험된 펩티드, 예를 들어, JBT0050, JBT0121, JBT0205 및 JBT0211, 및 그의 센소그램으로부터의 결합 상수는 결정될 수 없었다. JBT0133은 TFPI-1에 대해 약한 결합을 보였다. 다른 펩티드로부터의 센소그램은 신뢰할 만한 결합 상수를 제공한다. 몇몇 TFPI-억제 펩티드의 BIAcore 분석의 결과를 표 6 및 도 19-21에 제공한다. 표 6에 나열된 각각의 펩티드는 10 μM 미만의 K_D를 제시하였다. 펩티드 중 2개의 펩티드의 센소그램을 도 9a 및 9b로서 제공한다.

표 6

[0400]

펩티드	k_{on} (1/Ms)	k_{off} (1/s)	K_D (M)
JBT0047	4.0×10^{5}	1.9×10^{-2}	4.7×10^{-8}
JBT0120	1.17×10^{6}	4.78×10^{-2}	4.08×10^{-8}
JBT0131	1.4×10^{5}	6.0×10^{-2}	4.31×10^{-7}
JBT0132	3.55×10^{4}	3.26×10^{-2}	9.17×10^{-7}
JBT0224	6.39×10^{4}	1.95×10^{-2}	3.05×10^{-7}
JBT0293	6.0×10^{5}	5.6×10^{-2}	9.5×10^{-8}
JBT0297	5.0×10^{5}	1.4×10^{-2}	2.9×10^{-8}
JBT0303	8.13×10^{5}	2.75×10^{-2}	3.4×10^{-8}
JBT0305	7.5×10^{5}	3.1×10^{-2}	6.1×10^{-8}

[0401] TFPI-2 항-표적과의 상호작용을 또한 검사하였다. 인간 TFPI-2와 후보 펩티드 상호작용으로부터 생성된 최대 신호는 상호작용 파트너로서 TFPI-1을 사용하여 얻은 신호보다 훨씬 더 낮았다. 낮은 TFPI-2 결합 신호에 대한 속도 분석은 오차 경향이 있었고; 따라서, 센소그램의 시각적 비교를 이용하여 결합 친화도를 추정하였다. TFPI-1 및 TFPI-2에 대한 JBT0120 결합을 설명하는 센소그램을 도 10a 및 10b로서 제공한다. JBT0120은 TFPI-1에 대한 그의 결합 친화도에 비해 10배 더 낮은 친화도로 TFPI-2에 결합한다. 또한, JBT0132는 TFPI-2보다 TFPI-1에 대해 적어도 10배 더 큰 친화도를 보이는 것으로 밝혀졌다.

[0402] 본 실시예에 제공된 데이타는 TFPI-억제 펩티드가 TFPI-1에 특이적으로 결합함을 확인한다.

[0403] 실시예 3

[0404] 다음 실시예는 FXa 억제 및 외인성 테나제 억제 분석을 이용하여 실시예 1에서 확인된 선택된 펩티드의 TFPI-억제 활성의 특성 결정을 설명한다. 두 분석은 모두 혈장 시스템에서 활성을 예측한다. 외인성 테나제 분석은 (a) FXa 및 TFPI의 상호작용 및 (b) FXa-TFPI 복합체와 TF-FVIIa 복합체의 상호작용에 대한 펩티드의 영향에 대한 통찰을 제공한다. FXa 억제 분석은 FXa 및 TFPI의 상호작용에 대한 펩티드의 영향만을 측정한다.

[0405] 외인성 테나제 복합체는 응고 과정의 개시 시에 FX 및 FIX 활성화를 담당한다. 외인성 복합체는 FVIIa, 조직 인자 (TF), 및 FX 기질로 이루어진다. 외인성 테나제 복합체의 TFPI-매개된 억제에 대한 펩티드의 영향을 결정하기 위해, 커플링된 효소 분석을 확립하였다. 펩티드를 10 mM 원액으로부터 (DMSO 중에) 1/6.25로 희석하고, 원치 않는 침전을 방지하기 위해 DMSO 중에 연속 1/4 희석에 의해 추가로 희석하였다. TFPI를 HNaCa-HSA (25mM HEPES; 175mM NaCl; 5mM $CaCl_2$; 0.1% HSA; pH 7.35) 중에 희석하였다. FVIIa, 지질화 TF, 인지질 소포 (vesicle) (DOPC/POPS 80/20), 및 FXa에 특이적인 발색 기질 (S-2222 (다이아팜 (DiaPharma, 미국 오하이오주 웨스트체스터)로부터 입수가능함) (모두 HNaCa-HSA 중에 희석시킴)을 96-웰 플레이트에 첨가하였다. 인큐베이션 기간 후에, TFPI 및 펩티드 희석액을 첨가하여, 2.5% DMSO의 최종 농도로 하였다. FX를 웰에 첨가함으로써 FX 활성화를 개시시켰다. FXa-매개된 발색 기질 전환은 미세-플레이트 판독기를 이용하여 흡광도의 증가를 관찰함으로써 결정하였다. 특정 시점에 생성된 FXa의 양은 OD 판독치로부터 계산하였다. 반응 개시의 20분 후에 생성된 FXa를 펩티드 농도 대 TFPI의 억제 (%)의 플롯으로부터 EC_{50}의 계산을 위해 고려하였다.

[0406] 또한, TFPI의 기능적 억제를 FXa 억제 분석을 사용하여 조사하였다. FXa-특이적 발색 기질 (S-2222) 및 TFPI (둘 모두 HNaCa-HSA 중에 희석시킴)을 96 웰 플레이트에 첨가하였다. 펩티드를 10 mM 원액으로부터 (DMSO 중에) 1/6.25로 희석하고, 원치 않는 침전을 방지하기 위해 DMSO 중에 연속 1/4 희석에 의해 추가로 희석하였다. 펩티드 희석액 (2.5 ㎕)을 96 웰 플레이트에 첨가하여, 2.5% DMSO의 최종 농도로 하였다. 발색 기질의 전환은 FXa의 첨가에 의해 촉발시키고, 전환의 운동학은 미세-플레이트 판독기에서 측정하였다. TFPI는 FXa를 느리게 억제하므로, 115분 후의 OD 판독치를 펩티드 농도 대 TFPI의 억제 (%)의 플롯으로부터 EC_{50}의 계산을 위해 고려하였다.

[0407] 외인성 테나제 분석 및 FXa 억제 분석의 결과를 표 7 및 도 22-27에 제공한다.

표 7

[0408]

	FXa 억제 분석		외인성 테나제 분석	
	EC_{50} [μM]	2.5 μM에서 억제 %	EC_{50} [μM]	2.5 μM에서 억제 %
JBT0120	0.9	45	0.9	45
JBT0132	1.2	36	0.1	10
JBT0224	n.a.	26	3.5	18
JBT0303	1.2	61	n.a.	8

[0409] 표 7을 살펴보면, JBT0120, JBT0132, 및 JBT0224는 TFPI-1의 존재 하에 외인성 복합체-매개된 FX 활성화를 <2 μM의 EC_{50}으로 회복시켜, TFPI 활성을 약 20% 내지 약 60% 억제하였다. JBT0047 (EC_{50}=1.4 μM), JBT0131 (EC_{50}=2.2 μM), 및 JBT0293 (EC_{50}=2.9 μM)도 또한 TFPI-1의 존재 하에 외인성 복합체 활성을 회복시켰다. 또한, JBT0120, JBT0132, JBT0224 및 JBT0303은 TFPI-1의 존재 하에 FXa 활성을 < 5 μM의 EC_{50}으로 회복시켜, FXa 억제 분석에서 TFPI 활성을 약 5% 내지 약 50% 억제하였다. JBT0047 (EC_{50}=0.7 μM), JBT0131 (EC_{50}=8.2 μM), JBT0293 (EC_{50}=1.3 μM), JBT0297 (EC_{50}=0.6 μM), 및 JBT0305 (EC_{50}=2.3 μM)도 또한 FXa 억제 분석에서 TFPI-1의 존재 하에 FXa의 활성을 회복시켰다. 본 실시예는 본 발명의 펩티드가 TFPI 길항제임을 확인한다.

[0410] 실시예 4

[0411] 본 실시예에서, 펩티드의 TFPI 억제 활성을 혈장-기반 분석을 이용하여 확립한다.

[0412] 트롬빈 생성에 대한 펩티드의 영향을 Fluoroskan Ascent® 판독기 (써모 랩시스템즈 (Thermo Labsystems, 핀란드 헬싱키); 390 nm 여기 및 460 nm 방출의 필터)에서 교정된 자동화 트롬보그래피에 이어, 트롬빈-특이적 형광 기질 Z-Gly-Gly-Arg-AMC의 느린 절단 (Hemker, Pathophysiol. Haemost. Thromb., 33, 4-15 (2003))을 통해 이중으로 측정하였다. FVIII 또는 FIX 결핍이 있는 환자의 혈장 (조지 킹 바이오-메디칼 인크. (George King Bio-Medical Inc., 미국 캔사스주 오버랜드 파크))을 시험을 위해 입수하였다. 각각의 혈장에 대한 잔류 응고 인자 활성은 1% 미만이었다. 항체-매개된 FVIII 결핍에 대한 모델로서, 함께 모은 동결된 정상 혈장 (조지 킹 바이오-메디칼 인크., 미국 캔사스주 오버랜드 파크)을 염소에서 생성시킨 고역가의 열 불활성화된 항-인간 FVIII 혈장 (4490 BU/ml; 박스터 바이오사이언스, 오스트리아 비엔나)과 함께 50 BU/mL로 인큐베이팅하였다. 혈장을 인자 XIIa 오염을 억제하기 위해 옥수수 트립신 억제제 (CTI) (헤마톨로직 테크놀로지스, 인크. (Hematologic Technologies, Inc., 미국 버몬트주 에섹스 정션))와 혼합하여 40 ㎍/mL의 최종 농도로 하였다.

[0413] 미리 가온한 (37℃) 혈장 (80 ㎕)을 96 웰 미세-플레이트 (이뮬론 (Immulon) 2HB, 투명한 U자형 바닥; 써모 일렉트론 (Thermo Electron, 미국 매사추세츠주 월탬))의 각각의 웰에 첨가하였다. 조직 인자에 의한 트롬빈 생성을 촉발하기 위해, 소량 (12 pM)의 재조합 인간 조직 인자, 및 포스파티딜세린, 포스파티딜콜린 및 포스파티딜에탄올아민으로 구성된 인지질 소포 (48 μM) (트롬비노 스코프 비브이, 네덜란드 마스트리흐트)를 함유하는 10 ㎕의 PPP 로우 (low) 시약을 첨가하였다. 펩티드를 10 mM 원액으로부터 DMSO로 1/7.5로 희석하고, Aqua-Dest로 1/8.33로 추가로 희석하여 12%의 DMSO 농도로 하여, 최종 분석 혼합물 내에 0.5% DMSO 농도를 제공하였다. 플레이트를 미리 가온한 (37℃) 판독기에 넣기 전에, 5 mg/mL 인간 혈청 알부민 (시그마-알드리치 코퍼레이션 (Sigma-Aldrich Corporation, 미국 미주리주 세인트루이스))을 함유하는 5 ㎕의 HEPES 완충 염수 또는 Aqua-Dest 중의 12% DMSO를 첨가한 후, 펩티드 희석액 또는 참조 단백질 (FVIII 이뮤네이트 참조 표준품 (박스터 바이오사이언스, 오스트리아 비엔나); 인자 VIII 억제제 우회 활성 (FEIBA) 참조 표준품 (박스터 바이오사이언스, 오스트리아 비엔나); 노보세븐 (노보 노디스크, 덴마크); 및 정제된 인간 혈장 FIX (엔자임 리서치 래보

러토리즈 (Enzyme Research Laboratories, 미국 일리노이주 사우쓰 벤드))을 첨가하였다. 트롬빈 생성은 각각의 웰 내로 형광 기질 및 HEPES-완충 $CaCl_2$ (100 mM)를 함유하는 20 ㎕의 FluCa 시약 (트롬비노 스코프 비브이, 네덜란드 마스트리흐트)을 분배함으로써 개시시켰다. 형광 강도를 37℃에서 기록하였다.

[0414] 생성되는 트롬빈 생성 곡선의 파라미터는 트롬비노스코프™ 소프트웨어 (트롬비노스코프 비브이, 네덜란드 마스트리흐트) 및 내부 필터 및 기질 소모 효과에 대해 교정하기 위해 트롬빈 계산기를 이용하여 계산하였다 (Hemker, Pathophysiol. Haemost. Thromb., 33, 4-15 (2003)). 참조 단백질 (예를 들어, FVIII 이뮤네이트® 참조 표준품, FEIBA 참조 표준품)에 동등한 특정 펩티드 농도의 트롬빈 생성 활성을 계산하기 위해, 각각의 트롬빈 생성 곡선의 피크에서 트롬빈 양 (피크 트롬빈, nM)을 표준 농도에 대해 플로팅하고, 비-선형 알고리즘에 의해 피팅하였다. 상기 교정에 기초하여, FVIII 이뮤네이트, FIX, FEIBA 또는 노보세븐 등가 활성을 계산하였다. 다양한 펩티드에 대한 결과를 도 12-18 및 28-30에 제공한다. 대표적인 결과를 표 8에 제시한다 (*는 FVIII 결여 혈장을 상이한 공여자로부터 입수하였음을 나타낸다).

표 8

[0415]

	10 μM 펩티드에서 FVIII 결여 혈장 내의 % FVIII-등가 활성	10 μM 펩티드에서 FVIII 억제된 혈장 내의 FEIBA-등가 활성 [mU/ml]
JBT0120	37.4*	298
JBT0132	5.3	41
JBT0224	16.2	191
JBT0303	20.8	253

[0416] 표 8을 살펴보면, JBT0120, JBT0132, JBT0224, 및 JBT0303은 FVIII-결핍 혈장 내에서 TFPI-의존 트롬빈 생성을, FVIII를 함유하는 혈장 내에서 트롬빈 생성의 수준 (% FVIII-등가 활성)의 1%를 초과하는 수준으로 개선시켰다. 시험된 펩티드는 FVIII-결여 혈장 내에서 약 5%-40% FVIII-등가 활성을 보였다. JBT0120 및 JBT0132는 도 11a 및 11b에 도시된 바와 같이 피크 트롬빈 및 피크 시간을 용량 의존적으로 개선시켰다.

[0417] 실시예 5

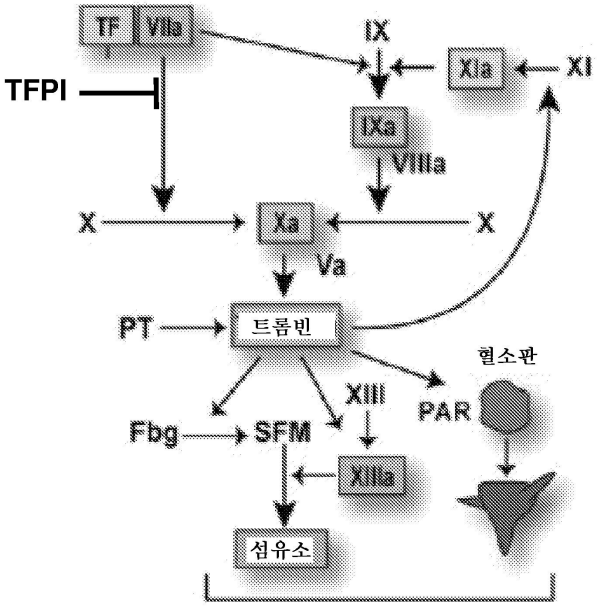
[0418] 다음 실시예는 본 발명의 펩티드가 펩티드의 물리화학적 또는 약동학 특성을 향상시키는 모이어티의 첨가에 의해 변형될 수 있음을 입증한다. 아래에 예시된 바와 같이, 본원에 기재된 펩티드에 대한 40 kDa PEG의 첨가는 펩티드의 약동학 거동을 극적으로 개선하였다.

[0419] 화학적 또는 생물학적 모이어티를 펩티드에 접합시키는 방법은 당업계에 공지되어 있다. PEG (폴리에틸렌 글리콜)를 본원에서 설명되는 펩티드에 부가하기 위해서, 관능기 (AOA = 아미노옥시 아세테이트)를 알데히드 및 케톤에 커플링시키기 위해 펩티드의 N-말단에 첨가하였다. 별법으로, 시스테인을 말레이미드와 커플링시키기 위해 펩티드의 C-말단 부분에 첨가하였다 (Hermanson, Bioconjugate Techniques, Academic Press (1996)). 펩티드 (JBT1586) AOA-FQSKGNVFVDGYFERL-Aib-AKL-NH2 (서열 166) 및 (JBT1587) Ac-FQSKGNVFVDGYFERL-Aib-AKLC-NH2 (서열 167)을 각각 PEG를 사용한 N-말단 및 C-말단 변형을 위해 사용하였다. AOA-FQSKGNVFVDGYFERL-Aib-AKL-NH2 (서열 166) 및 Ac-FQSKGNVFVDGYFERL-Aib-AKLC-NH2 (서열 167)을 각각 과량의 40 kDa mPEG-프로피온알데히드 (SUNBRIGHT ME-400AL2, NOF, 일본) 및 40 kDa mPEG-말레이미드 (SUNBRIGHT ME-400MA, NOF, 일본)와 함께 인큐베이팅하였다. 생성되는 PEG화된 펩티드 JBT1853 및 JBT1855는 출발 구조 Ac-FQSKGNVFVDGYFERL-Aib-AKL-NH2 (JBT0740) (서열 66)에 비해 유사한 친화도를 보인다.

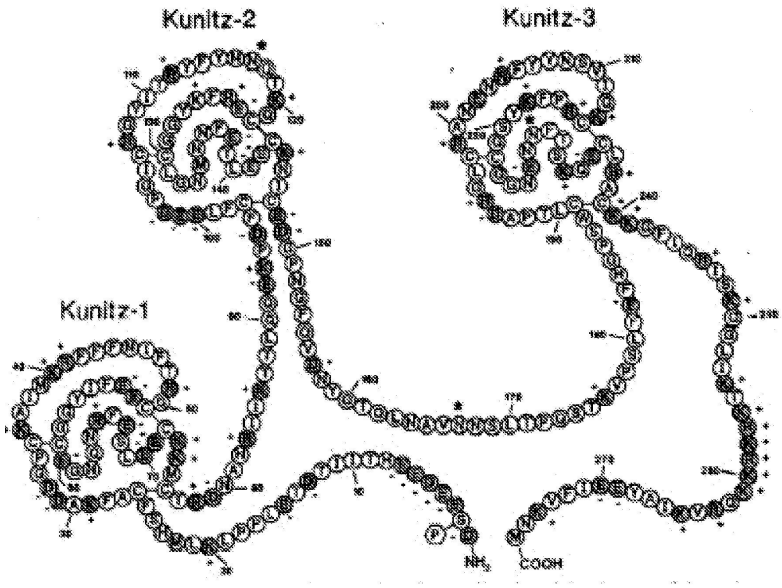
[0420] 생성되는 PEG화된 펩티드는 마우스에서 유의하게 증가된 혈장 안정성 및 지속된 혈장 반감기를 나타냈다. 도 31은 C-말단에서 PEG화된 펩티드 JBT1855 (Ac-FQSKGNVFVDGYFERL-Aib-AKLC(PEG(40kD))-NH2) (서열 252)에 비해 유리 펩티드 JBT0740 (Ac-FQSKGNVFVDGYFERL-Aib-AKL-NH2) (서열 66)의 약동학 분석의 결과를 예시한다. 비PEG화된 펩티드와 달리, PEG화 펩티드는 투여의 100분 후에 마우스 혈장 내에 고농도로 존재한다. 비PEG화된 펩티드는 혈장으로부터 급속하게 청소된다.

도면

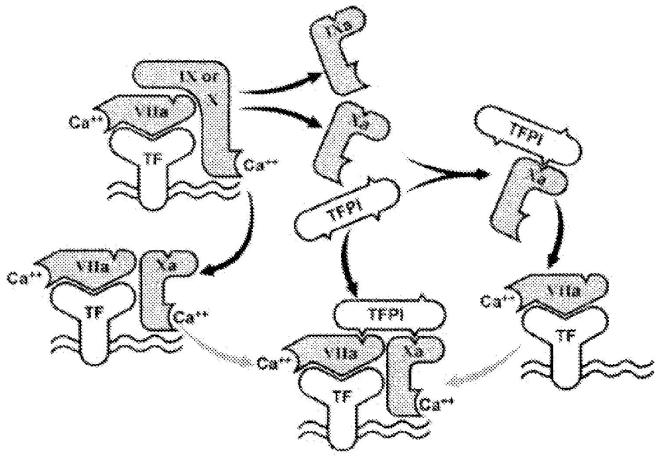
도면1


TF
VIIa
IX
XIa
XI
TFPI
IXa
VIIIa
X
Xa
X
Va
PT
트롬빈
혈소판
XIII
PAR
Fbg
SFM
XIIIa
섬유소

도면2


Kunitz-2
Kunitz-3
Kunitz-1
NH2
COOH

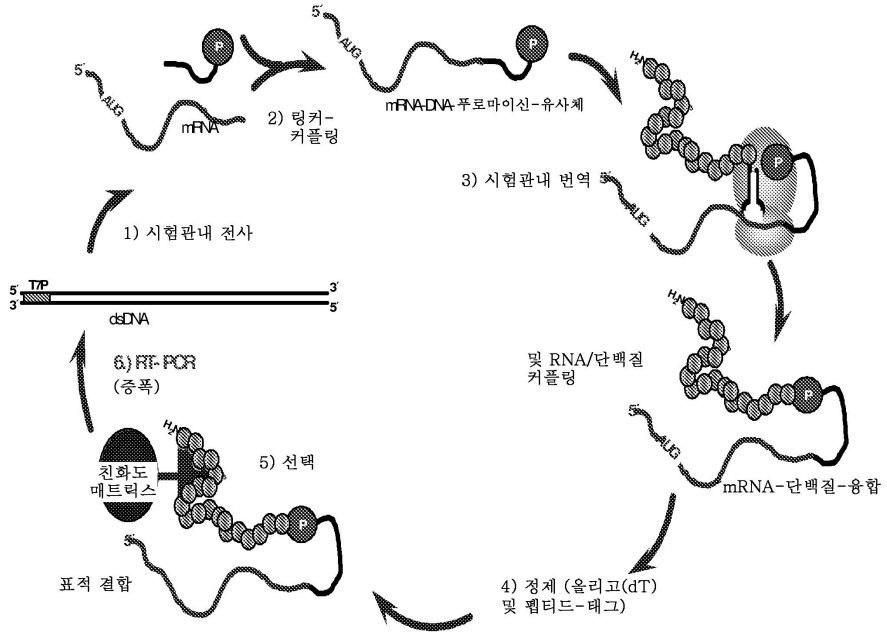
도면3



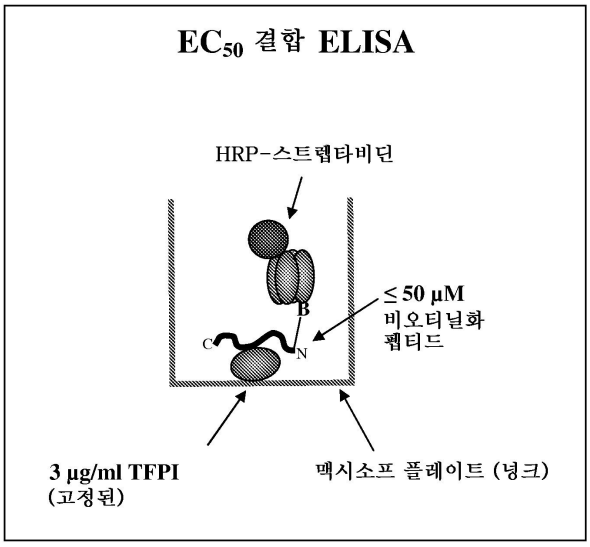
도면4

기본 서열 JBT0293	FQSKKNVFVFGYFERLRAKL	(서열 256)
JBT0294	Ac-**Y**QSKKNVFVFGYFERLRAKL-NH2	(서열 257)
JBT0295	Ac-F**S**SKKNVFVFGYFERLRAKL-NH2	(서열 713)
JBT0296	Ac-FQ**N**KKNVFVFGYFERLRAKL-NH2	(서열 407)
JBT0297	Ac-FQSK**N**NVFVFGYFERLRAKL-NH2	(서열 183)
JBT0298	Ac-FQSK**Q**NVFVFGYFERLRAKL-NH2	(서열 747)
JBT0299	Ac-FQSKKNVF**A**FGYFERLRAKL-NH2	(서열 408)
JBT0300	Ac-FQSKKNVF**S**FGYFERLRAKL-NH2	(서열 409)
JBT0301	Ac-FQSKKNVF**T**FGYFERLRAKL-NH2	(서열 410)
JBT0302	Ac-FQSKKNVFV**A**GYFERLRAKL-NH2	(서열 258)
JBT0303	Ac-FQSKKNVFV**D**GYFERLRAKL-NH2	(서열 184)
JBT0304	Ac-FQSKKNVFV**L**GYFERLRAKL-NH2	(서열 259)
JBT0305	Ac-FQSKKNVFV**Q**GYFERLRAKL-NH2	(서열 260)
JBT0306	Ac-FQSKKNVFV**S**GYFERLRAKL-NH2	(서열 185)
JBT0307	Ac-FQSKKNVFV**Y**GYFERLRAKL-NH2	(서열 261)
JBT0308	Ac-FQSKKNVFVFGY**K**ERLRAKL-NH2	(서열 411)
JBT0309	Ac-FQSKKNVFVFGY**Y**ERLRAKL-NH2	(서열 412)
JBT0310	Ac-FQSKKNVFVFGYF**D**RLRAKL-NH2	(서열 262)
JBT0311	Ac-FQSKKNVFVFGYFERLRAK**N**-NH2	(서열 748)

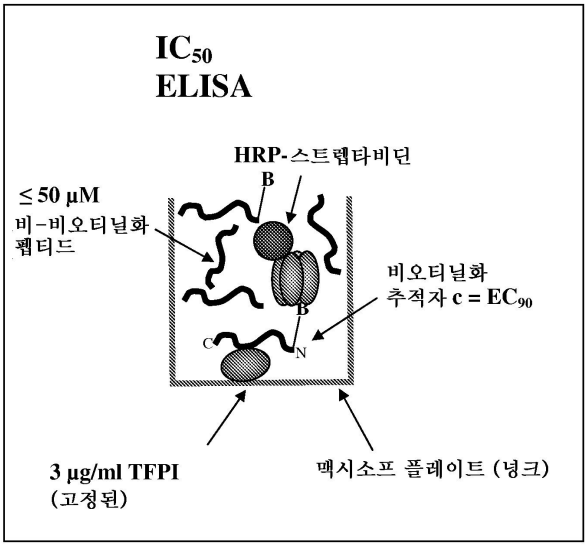
도면5


5'
AUG
mRNA
2) 링커-
커플링
mRNA-DNA-푸로마이신-유사체
3) 시험관내 번역
1) 시험관내 전사
T7P
dsDNA
6) RT-PCR
(증폭)
및 RNA/단백질
커플링
친화도
매트릭스
5) 선택
mRNA-단백질-융합
표적 결합
4) 정제 (올리고(dT)
및 펩티드-태그)

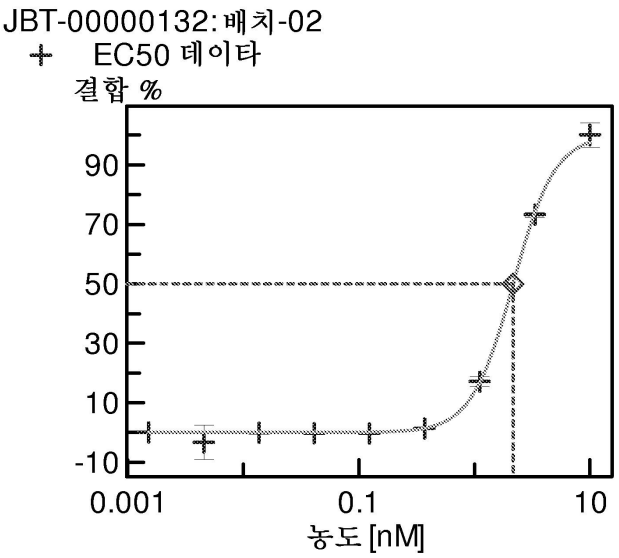
도면6a


EC50 결합 ELISA
HRP-스트렙타비딘
≤ 50 μM
비오티닐화
펩티드
B
C
N
3 μg/ml TFPI
(고정된)
맥시소프 플레이트 (넝크)

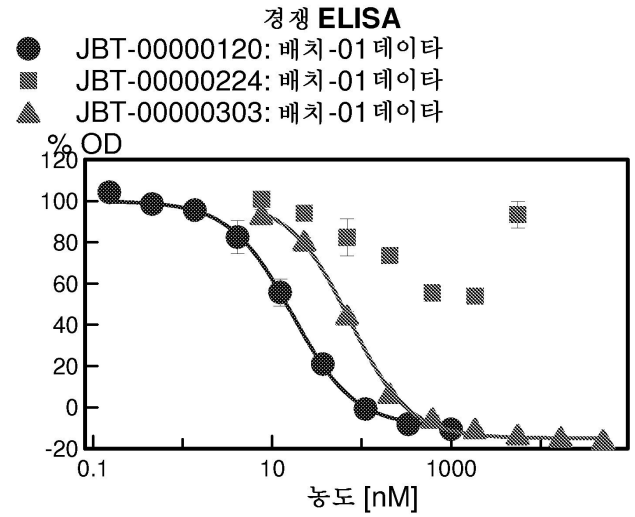
도면6b


IC50
ELISA
HRP-스트렙타비딘
B
≤50 μM
비-비오티닐화
펩티드
비오티닐화
추적자 c = EC90
B
C
N
3 μg/ml TFPI
(고정된)
맥시소프 플레이트 (넝크)

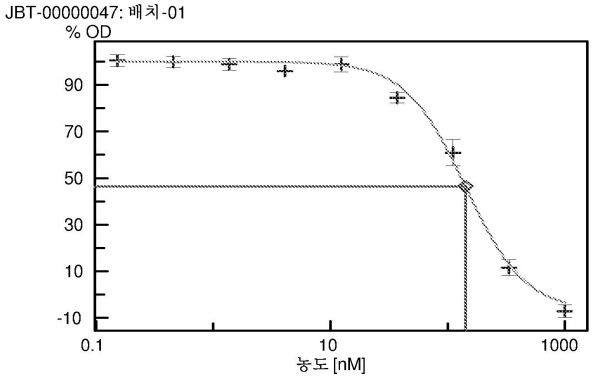
도면7


JBT-00000132:배치-02
EC50 데이타
결합 %
90
70
50
30
10
-10
0.001
0.1
10
농도 [nM]

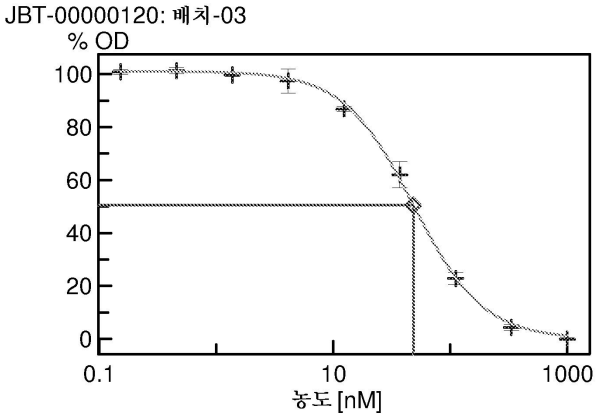
도면8a



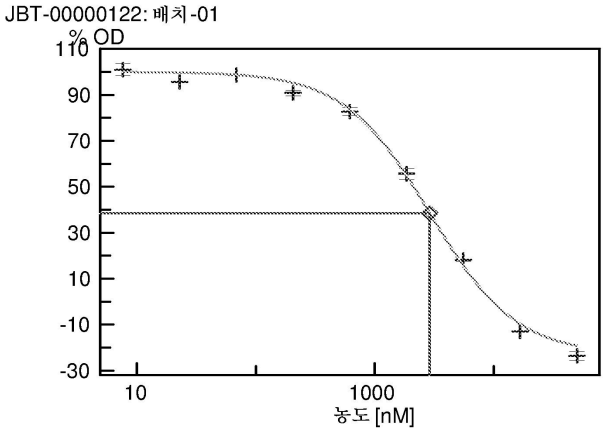
도면8b



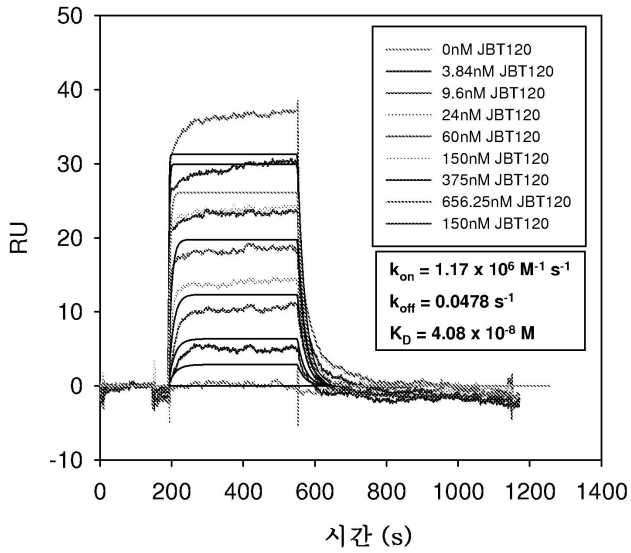
도면8c



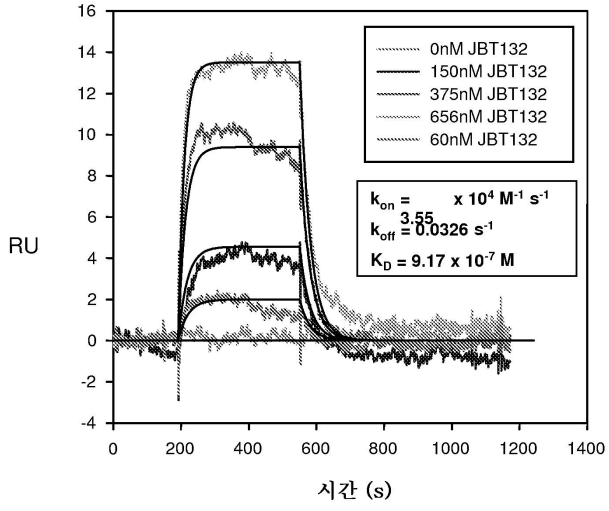
도면8d



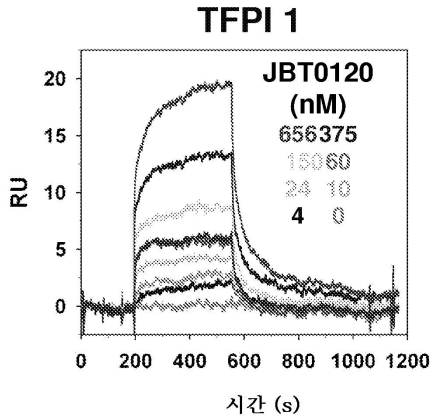
도면9a



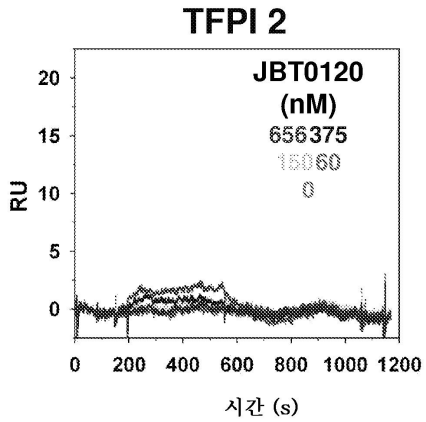
도면9b



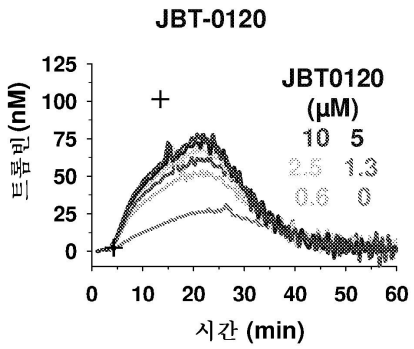
도면10a



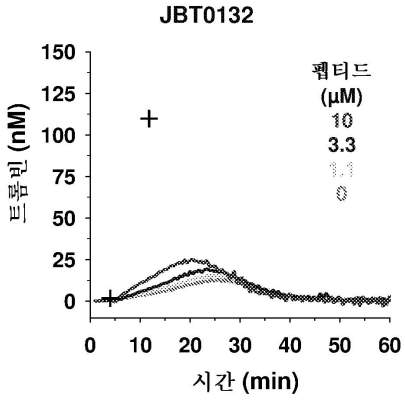
도면10b



도면11a



도면11b



도면12a

JBT-0047		FXa의 억제의 진행 곡선			TFPI에 의한 외인성 테나제 억제		인자 IIa 농도		
펩티드	서열	EC_{50} (μM)	%억제 (Max)	%억제 (2.5μM)	EC_{50} (μM)	%억제 (2.5μM)	유도된 FVIII 결핍 FEIBA EA (mU/mL) Conc: 10μM	FVIII 결핍 (mU/mL) Conc: 10μM	FIX 결핍 (mU/mL) Conc: 10μM
JBT0047	Ac-SGVGRLQVAFQSKKNVFVFGYFERLRAKLTS-NH2 (SEQ ID NO: 253)	---		NA	---	NA	123	122	
		---		NA	1.23	NA			
		---		NA	---	NA			
		---		NA	2.98	16			
		0.72	82.4	68					
				NA					
				49					
JBT0047	Ac-SGVGRLQVAFQSKKNVFVFGYFERLRAKLTS-NH2 (SEQ ID NO: 253)	---		NA	1.37	20	128	289	68
		1.33	63.10	35	1.46	26			
							160		
							155		
JBT0047	Ac-SGVGRLQVAFQSKKNVFVFGYFERLRAKLTS-NH2*HCL (SEQ ID NO: 253)								

도면12b

JBT0051	비오틴-Tds-SGVGRLQVAFQSKKNVFVFGYFERLRAKLTS-NH2 (SEQ ID NO: 962)	---		NA	2.49	NA				
		0.53	86.9	66	1.04	19				
JBT0055	Ac-SGVGRLQVAFQSKKNVFVFGYFERLRAKLTS-Tds-칼이신(비오틴)-NH2 (SEQ ID NO: 963)	---		NA	---	NA				
		---		NA	---	NA				
		---		NA		18				
		0.53	88.4	72	1.67	25				
		---		NA						
JBT0055	Ac-SGVGRLQVAFQSKKNVFVFGYFERLRAKLTS-Tds-칼이신(비오틴)-NH2 (SEQ ID NO: 963)	---		NA						
JBT0131	-Tds-AFQSKKNVFVFGYFERLRAK-NH2 (SEQ ID NO: 964)	---		NA	2.02	11	65	173		
		8.20	77.80	23						
JBT0131	비오틴-Tds-AFQSKKNVFVFGYFERLRAK-NH2*HCl (SEQ ID NO: 964)	10.52	72.06	12	1.67	14	106	45		
		---		14	2.96	14				
JBT0132	비오틴-Tds-FQSKKNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 965)	---		NA	0.06	10	41	102		
		---		44	---	16	28			
		1.15	49.37	36						
JBT0132	비오틴-Tds-FQSKKNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 965)	---		23		11	109			

도면12c

		---		27	---	13	123		53
							112		
JBT0132	비오틴-Tds-FQSKKNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 965)	---		30	---	11	117		
JBT0133	비오틴-Tds-QSKKNVFVFGYFERLRAKL7-NH2 (SEQ ID NO: 966)	---		NA	0.34	9	28	67	
		---		15					
JBT0134	비오틴-Tds-QSKKNVFVFGYFERLRAK-NH2 (SEQ ID NO: 967)	---		NA	---	3	11	--	
		---		5					
JBT0155	Ac-KKSGVGRLQVAFQSKKNVFVFGYFERLRAKL TSKK-NH2 (SEQ ID NO: 8)	---		74	0.38	33	49		
		0.97	77.70	54			67		
JBT0156*	Ac-VVEKLTFVQLSFLNRRRFSQYAGFKGAGKV-NH2 (SEQ ID NO: 742)	---		0	---	18	--		
					1.49	14			
JBT0157*	Ac-RVFLYFSGKAGGLVKLVERQAFQTNVSKFR-NH2 (SEQ ID NO: 743)	---		0	---	12	--		
					---	9			
					2.77	9			
JBT0158	Ac-KKSGVGRLQVAFQSKKNVFVFGYFERLRAKK K-NH2 (SEQ ID NO: 9)	---		34	---	23	30		
		4.26	88.20	35					
JBT0159	Ac-	---		0	---	18	inhib		

도면12d

	KKSGVGRLQVAFQSKKNVFVFGYFERLKK-NH2 (SEQ ID NO: 744)							
JBT0160	Ac-KKSGVGRLQVAFQSKKNVFVFGYFKK-NH2 (SEQ ID NO: 745)	---		0	---	22		
JBT0161	Ac-KKSGVGRLQVAFQSKKNVFVFKK-NH2 (SEQ ID NO: 746)	---		0	---	6	inhib	
JBT0162	Ac-KKGRLQVAFQSKKNVFVFGYFERLRAKLTSK-NH2 (SEQ ID NO: 10)	---		68	0.28	34	54	
		0.74	70.70	54				
JBT0163	Ac-KKQVAFQSKKNVFVFGYFERLRAKLTSKK-NH2 (SEQ ID NO: 11)	---		66	0.89	31	69	
		1.54	79.30	48				
JBT0164	Ac-KKFQSKKNVFVFGYFERLRAKLTSKK-NH2 (SEQ ID NO: 12)	---		55	2.68	24	39	
		---		50				
JBT0165	Ac-KKKKNVFVFGYFERLRAKLTSKK-NH2 (SEQ ID NO: 712)	1.74	71.24	43				
		---		0	---	15	inhib	
JBT0166	비오틴닐-Tids-KKFQSKKNVFVFGYFERLRAKLKK-NH2 (SEQ ID NO: 968)	---		71	1.95	36		
		---	58					
		2.60	85.60	50				
JBT0167*	비오틴닐-Tids-GKNAKFYLFESLRQVKFVFR-NH2 (SEQ ID NO: 969)	---		0	---	21	--	

도면12e

					---	19			
JBT0168*	비오틴닐-Tds-YKFSFNKELFKQARLRFVGV-NH2 (SEQ ID NO: 970)	---		0	---	9	--		
					---	2			
JBT0169	Ac-KKAFQSKKNVFVFGYFERLRAKKK-NH2 (SEQ ID NO: 254)	---		16	2.35	20	21		
		---		21					
JBT0170	Ac-KKFQSKKNVFVFGYFERLRAKLKK-NH2 (SEQ ID NO: 13)	---		61	1.90	30	68		
		---		49					
		---		43					
JBT0171	Ac-KKQSKKNVFVFGYFERLRAKLTKK -NH2 (SEQ ID NO: 255)	---		25	4.12	13	33		
		---		29					
JBT0172	Ac-KKQSKKNVFVFGYFERLRAKKK-NH2 (SEQ ID NO: 406)	---		7	3.98	8	--		
		---		14					
JBT0173	비오틴닐-Tds-SGYGRLQVAFQSKKNVFVFG-NH2 (SEQ ID NO: 971)	---		0		3			
JBT0174	Ac-KKAFQSKKNVFVFGYFERLRAKLKK-NH2 (SEQ ID NO: 14)	---		47	2.90	26	49		
		---		39					
JBT0175	Ac-KKAFQSKKNVFVFGYFERLRAKLTKK-NH2 (SEQ ID NO: 182)	---		45	2.29	26	49		
		2.71	78.67	40					
					---	1			

도면12f

JBT0293	Ac-FQSKKNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 256)	---		28	---	3					
		1.32	40.6	27	2.93	12	119				
		1.69	44.11	27	---	14	147	71			
		---		29	---	13	135				
		1.94	39.5	22	---	15	132				
JBT0293	Ac-FQSKKNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 256)	---		27	1.62	16					
		5.37	78.1	26							
JBT0294	Ac-YQSKKNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 257)	---		46		12	122				
		4.07	101.07	40	5.31	9	169	82			
JBT0295	Ac-FSSKKNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 713)	---		2		13	inhib				
					1.80	10					
JBT0296	Ac-FQNKKNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 407)	---		25		6	79				
		4.91	69.35	19	7.83	10					
JBT0297	Ac-FQSKNNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 183)	---		67	---	13	147				
		0.63	67.87	59	---	14	206	113			
		0.44	58.5	56	---	7	170				
		1.1	60.6	41	---	14	197				
JBT0298	Ac-FQSKQNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 747)	---		45	---	15	109				
		1.83	71.69	42	---	17					

도면12g

JBT0299	Ac-FQSKKNVEAFGYFERLRAKL-NH2 (SEQ ID NO: 408)	---		13	---	5	63		
		15.31	73.69	9	---	6			
JBT0300	Ac-FQSKKNVFSFGYFERLRAKL-NH2 (SEQ ID NO: 409)	---		7	---	3	40		
JBT0301	Ac-FQSKKNVFTFGYFERLRAKL-NH2 (SEQ ID NO: 410)	---		9	---	0	49		
JBT0302	Ac-FQSKKNVFVAGYFERLRAKL-NH2 (SEQ ID NO: 258)	---		55	---	3	220		
		2.10	90.94	47	---	6	249	185	
		2.6	68.2	33	---	8	218		
JBT0303	Ac-FQSKKNVFVDGYFERLRAKL-NH2 (SEQ ID NO: 184)	---		61	---	7	253		
		1.16	93.12	61	---	8	250	218	
		0.92	78.01	54	---	7	244		
					11.16	7	239		
JBT0303	Ac-FQSKKNVFVDGYFERLRAKL-NH2 (SEQ ID NO: 184)	1.76	77.5	45	8.8	9			
JBT0304	Ac-FQSKKNVFVLGYFERLRAKL-NH2 (SEQ ID NO: 259)	---		35	---	7	138		
		2.95	75.15	32	12.87	7			
JBT0305	Ac-FQSKKNVFVQGYFERLRAKL-NH2 (SEQ ID NO: 260)	---		46	---	0	207		
		2.28	87.92	45	---	5	223	205	
		3.15	65.6	27	---	4	207		
JBT0306	Ac-FQSKKNVFVSGYFERLRAKL-NH2 (SEQ ID NO: 185)	---		42	---	3	197		
		3.56	94.28	37	---	2	204	174	

도면12h

JBT0307	Ac-FQSKKNVFVYGYTERLRAKL-NH2 (SEQ ID NO: 261)	---		38	---	7		151	
		3.42	85.15	34	8.72	4	182		168
		3.01	60.2	26	---	9	182		
JBT0308	Ac-FQSKKNVFVEGYKERLRAKL-NH2 (SEQ ID NO: 411)	---		9	---	4	133		
JBT0309	Ac-FQSKKNVFVEGYYERLRAKL-NH2 (SEQ ID NO: 412)	---		21	---	7	123		
		4.50	66.79	19	8.55	7			
JBT0310	Ac-FQSKKNVFVEGYTDRLRAKL-NH2 (SEQ ID NO: 262)	---		31	---	5	142		
		3.86	70.81	26	16.98	3	152		
		2.11	47.68	24	---	4	163		
		3.37	48.8	19	---	5			
JBT0311	Ac-FQSKKNVFVEGYTERLRAKN-NH2 (SEQ ID NO: 748)	---		5	---	5	27		
		44.92	68.81	5	3.72	10			
JBT0335	Ac-FQSKKNVFVEGYTERLRAK-NH2 (SEQ ID NO: 749)	6.2	16.4	2	10.48	5	28		
JBT0336	Ac-FQSKNNVFVAGYTDRLRAKL-OH (SEQ ID NO: 263)	6.52	63	19	12.13	5	186		
							181		
JBT0337	Ac-FQSKNNVFVDGYTDRLRAKL-NH2 (SEQ ID NO: 16)	0.71	69.1	51	13.33	15	219		
JBT0338	Ac-FQSKNNVFVQGYTDRLRAKL-NH2 (SEQ ID NO: 17)	1.12	60.9	40	8.42	9	197		
JBT0339	Ac-FQSKNNVFVSGYTDRLRAKL-NH2 (SEQ ID	1.22	66.9	42	19.1	9	230		

도면12i

	NO: 18)										
JBT0340	Ac-FQSKNNVFVYGYFDRLRAKL-NH2 (SEQ ID NO: 186)	1.87	66	37	26.12	9		231			
JBT0341	Ac-FQSKNNVFVFGYFDRLRAKL-NH2 (SEQ ID NO: 187)	1.08	54.1	38	8.68	10		193			
JBT0342	Ac-FQSKNNVFVDGYFERLRAKL-NH2 (SEQ ID NO: 19)	0.38	65.8	58	7.15	18		244			
								241			
JBT0343	Ac-FQSKKNVFVDGYFDRLRAKL-NH2 (SEQ ID NO: 188)	1.08	54.1	34	42.24	8		239			
		2.21	82	42							
JBT0374	Ac-FQSKDNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 20)	---		47	---	5		216			
		0.64	56.9	49	20.22	19					
JBT0375	Ac-FQSKGNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 190)	---		57	---	14		224			
		---		70	2.93	30					
		0.31	62.1	61							
JBT0375	Ac-FQSKGNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 190)	---		53	---	19					
JBT0376	Ac-FQSKKNAFVFGYFERLRAKL-NH2 (SEQ ID NO: 414)	---		11	---	3		101			
JBT0377	Ac-FQSKKNQFVFGYFERLRAKL-NH2 (SEQ ID NO: 264)	---		20	---	8		180			
JBT0378	Ac-FQSKKNVFVEGYFERLRAKL-NH2 (SEQ ID NO: 21)	---		41	---	7		245			
		1.59	79.1	44	9.03	12					

도면12j

JBT0379	Ac-FQSKKNVFVTGYFERLRAKL-NH2 (SEQ ID NO: 22)	---		31	---	6	226		
		3.13	81.8	36	47,85 ??	12			
JBT0380	Ac-FQSKKNVFVVGYFERLRAKL-NH2 (SEQ ID NO: 191)	---		27	---	6	199		
		2.59	73.1	34	7.58	10			
JBT0381	Ac-FQSPKNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 265)	---		30	---	9	173		
		no fit		34	no fit	11			
JBT0385	Ac-FQSKKNNFVFGYFERLRAKL-NH2 (SEQ ID NO: 672)	---		0	---	2	---		
JBT0386	Ac-FQSKKNPFVFGYFERLRAKL-NH2 (SEQ ID NO: 415)	---		6	---	5	85		
JBT0388	Ac-FQSKKNVHVFGYFERLRAKL-NH2 (SEQ ID NO: 192)	---		25	---	6	185		
		4.34	72.5	26	no fit	9			
JBT0389	Ac-FQSKKNVVVFGYFERLRAKL-NH2 (SEQ ID NO: 673)	---		0	---	8	34		
JBT0390	Ac-FQSKKNVFQFGYFERLRAKL-NH2 (SEQ ID NO: 674)	---		0	---	5	28		
JBT0391	Ac-FQSKKNVFVGGYFERLRAKL-NH2 (SEQ ID NO: 266)	---		12	---	1	178		
		7.02	73.8	18	---	1			
JBT0392	Ac-FQSKKNVFVHGYFERLRAKL-NH2 (SEQ ID NO: 23)	---		32	---	4	228		
		2.48	74.4	37	---	6			
JBT0393	Ac-FQSKKNVFVKGYFERLRAKL-NH2 (SEQ ID	---		20	---	3	268		

도면12k

	NO: 193)									
JBT0394	Ac-FQSKKNVFVMGYFERLRAKL-NH2 (SEQ ID NO: 24)	---	3.02	64.1	28	10	---	---	1	7	115			
JBT0395	Ac-FQSKKNVFVNGYFERLRAKL-NH2 (SEQ ID NO: 25)	---	6.83	57.3	12	28	---	---	8	7	235			
JBT0396	Ac-FQSKKNVFVPGYFERLRAKL-NH2 (SEQ ID NO: 194)	---	2.80	72.1	32	22	---	no fit	7	6	196			
JBT0397	Ac-FQSKKNVFVRGYFERLRAKL-NH2 (SEQ ID NO: 195)	---	4.33	77.2	30	24	---	8.71	6	4	240			
JBT0398	Ac-FQSKKNVFVFGYFEELRAKL-NH2 (SEQ ID NO: 196)	---	5.09	72.3	23	4	---	9.80	0	8	--			
JBT0399	Ac-FQSKKNVFVFGYFELLRAKL-NH2 (SEQ ID NO: 750)	---			0	0	---	---	7	7	--			
JBT0400	Ac-FQSKKNVFVFGYFLRLRAKL-NH2 (SEQ ID NO: 267)	---			1	1	---	---	13	13	--			
JBT0401	Ac-FQSKKNVFVFGYFERLRAVL-NH2 (SEQ ID NO: 416)	---			0	0	---	---	4	4	--			
JBT0402	비오틴-Tids-FQSKNNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 973)	0.32	45.41		48	48	---	---	11	11	185			
JBT0403	비오틴-Tids-FQSKKNVFVDGYFERLRAKL-NH2 (SEQ ID NO: 972)	0.49	64.39		59	59	---	---	9	9	253			
		---			62	62								
JBT0404	비오틴-Tids-FQSKKNVFVFGYFDRLRAKL-NH2	1.89	42.89		24	24	3.38		14	14	115			

도면121

	(SEQ ID NO: 974)								
JBT0405	비오틴-FQSKKNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 975)	0.86	81.33	59	---	15	142		
JBT0406	Ac-Tds-FQSKKNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 268)	---		28	---	9	114		

도면13a

JBT-0049		FXa의 억제의 진행 곡선			TFPI에 의한 외인성 테나제 억제		인자 IIa 농도		
펩티드	서열	EC_{50} (μM)	%억제 (Max)	%억제 (2.5μM)	EC_{50} (μM)	%억제 (2.5μM)	유도된 FVIII 결핍 FEIBA EA (mU/mL) Conc: 10μM	FVIII 결핍 (mU/mL) Conc: 10μM	FIX 결핍 (mU/mL) Conc: 10μM
JBT0049	Ac-SGNTFVDERLLYFLTIGNMGMYAAQLKFRTS-NH2 (SEQ ID NO: 3025)	---		NA	---	NA		12	12
		---		NA	---	17	36	44	
		---		NA	---	11			
		---		NA					
		---		17					
JBT0049	Ac-SGNTFVDERLLYFLTIGNMGMYAAQLKFRTS-NH2 (SEQ ID NO: 3025)	---		10	---	13	49	17	
		---		19	---	8	42		
							53		
JBT0053	비오틴-Tids-SGNTFVDERLLYFLTIGNMGMYAAQLKFRTS-NH2 (SEQ ID NO: 3006)	---		NA	---	11			
		---		NA					
		---		18					
JBT0057	Ac-SGNTFVDERLLYFLTIGNMGMYAAQLKFRTS-Tids-글이신(비오틴)-NH2 (SEQ ID NO: 3018)	---		NA	---	15			
		---		NA					
		---		15					
JBT0135	비오틴-Tids-LLYFLTIGNMGMYAAQLKFR-NH2 (SEQ ID NO: 3021)	---		NA	---	10 (0.625μ			

도면13b

JBT0136	비오틴-Tds-LYFLTIGNMGMYAAQLKFRT-NH2 (SEQ ID NO: 3014)	---		0			M)			
				NA	---		11 (0.625μ M)			
JBT0137	비오틴-Tds-YFLTIGNMGMYAAQLKFRTS-NH2 (SEQ ID NO: 3013)	---	---							
				0						
JBT0138	비오틴-Tds-YFLTIGNMGMYAAQLKFR-NH2 (SEQ ID NO: 3012)	---		0	0	---	2			
				0	---	---	4			
JBT0190	Ac-KKSGNTFVDERLLYFLTIGNMGMYAAQLKFR TSKK-NH2 (SEQ ID NO: 3031)	---		21	0.49	32	80	72		
		---	---	27			74			
JBT0191*	Ac-MLGVLMRGISALTGDYTARFEFYLNKQTFN-NH2 (SEQ ID NO: 3054)	---		0	---	0				
JBT0192*										
JBT0193	Ac-KKSGNTFVDERLLYFLTIGNMGMYAAQLKFK K-NH2 (SEQ ID NO: 3073)			51	1.26	38	140	114		
		2.30	104.85	52			149			
JBT0194	Ac-KKSGNTFVDERLLYFLTIGNMGMYAAQKK-NH2 (SEQ ID NO: 3074)	---		0	---	8				
JBT0195	Ac-KKSGNTFVDERLLYFLTIGNMGMYKK-NH2 (SEQ ID NO: 3075)	---		0	---	5				
JBT0196	Ac-KKSGNTFVDERLLYFLTIGNMKK-NH2 (SEQ ID NO: 3048)	---		0	---	12				
JBT0197	Ac-KKTFVDERLLYFLTIGNMGMYAAQLKFRTSK K-NH2 (SEQ ID NO: 3076)	---		38	0.38	35	146			
		0.91	57.40	39						

도면13c

JBT0198	Ac-KKDERLLYFLTIGNMGMYAAQLKFRTSKK-NH2 (SEQ ID NO: 3077)	---	0	---	17				
JBT0199	Ac-KKLLYFLTIGNMGMYAAQLKFRTSKK-NH2 (SEQ ID NO: 3078)	---	0	---	20				
				---	17				
JBT0200	Ac-KKFLTIGNMGMYAAQLKFRTSKK-NH2 (SEQ ID NO: 3079)	---	0	---	9				
JBT0201	Ac-KKLLYFLTIGNMGMYAAQLKFRKK-NH2 (SEQ ID NO: 3080)	---	2	---	23				
				---	16				
JBT0202	Ac-KKLYFLTIGNMGMYAAQLKFRTKK-NH2 (SEQ ID NO: 3081)	---	0	---	15				
JBT0203	Ac-KKYFLTIGNMGMYAAQLKFRTSKK-NH2 (SEQ ID NO: 3082)	---	0	---	7				
JBT0204	Ac-KKSGNTFVDERLLYFLTIGNMGKK-NH2 (SEQ ID NO: 3060)	---	0	---	5				
				---	0				
JBT0243	Ac-SGDTFVDERLLYFLTIGNMRMYAVQLKFRTS-NH2 (SEQ ID NO: 3085)		39	---	37				
		0.51	41.53	37					
JBT0244	Ac-SGDTFVDERLLYFLTTGNMRMYAVQLKFRTS-NH2 (SEQ ID NO: 3086)	---	50	---	37				
		---		49					
JBT0245	Ac-SGDTFVDERLLYFLTIGDMRMYAVQLKFRTS-NH2 (SEQ ID NO: 3087)	---	45	---	NA				
		0.44	50.53	44	---	21			
					---	24			
JBT0344	Ac-TFVDERLLYFLTIGNMGMYAAQLKF-NH2 (SEQ ID NO: 3038)	---		2	---	1	---		

도면13d

JBT0345	Ac-FVDERLLYFLTIGNMGMYAAQLKF-NH2 (SEQ ID NO: 3039)	---		2	---	2	---		
JBT0346	Ac-VDERLLYFLTIGNMGMYAAQLKF-NH2 (SEQ ID NO: 3034)	---		0	---	2	---		
JBT0347	Ac-TFVDERLLYFLTIGNMGMYAAQLK-NH2 (SEQ ID NO: 3040)	---		2	---	4	---		
JBT0348	Ac-TFVDERLLYFLTIGNMGMYAAQ-NH2 (SEQ ID NO: 3084)	---		0	---	2	---		

도면14a

JBT-0050		FXa의 억제의 진행 곡선			TFPI에 의한 의인성 테나제 억제		인자 IIa 농도		
펩티드	서열	EC_{50} (μM)	% 억제 (Max)	% 억제 (2.5μM)	EC_{50} (μM)	% 억제 (2.5μM)	유도된 FVIII 결핍 FEIBA EA (mU/mL) Conc: 10μM	FVIII 결핍 (mU/mL) Conc: 10μM	FIX 결핍 (mU/mL) Conc: 10μM
JBT0050	Ac-SGRGCTKVIVFTFRHNKLIGYERRYNCTS-NH2 (SEQ ID NO: 3047)	---		NA	---	NA	32	81	21
		---		NA	0.14	25	32	38	
		---		NA	---	NA	46		
		0.95	56.6	39	0.05	33	49		
		---		NA					
		1.14	58.99	35					
JBT0050	Ac-SGRGCTKVIVFTFRHNKLIGYERRYNCTS-NH2 (SEQ ID NO: 3047)	---		33	---	28	23		
		1.07	35,6	26	0.14	19	27	36	
JBT0054	비오틴-Tids-SGRGCTKVIVFTFRHNKLIGYERRYNCTS-NH2 (SEQ ID NO: 3002)	---		NA	0.16	NA			
		0.99	56.1	41	0.45	31			
JBT0058	Ac-SGRGCTKVIVFTFRHNKLIGYERRYNCTS-Tids-라이신(비오틴)-NH2 (SEQ ID NO: 3003)	---		NA	---	NA			
		1.07	60.9	42	0.37	28			
JBT0129	Ac-SGRGCTKVIVFTFRHNKLIGYERRYNCTS-NH2; Cycl. C5-C27 (SEQ ID NO: 3026)	---		NA	0.16	21	27		

도면14b

JBT0130	비오틴-Tids-SGRGCTKVIVFTFRHNKLIGYERRYNCTS-NH2; cycl. C6-C28 (SEQ ID NO: 3001)	---	---	32	0.15		31	18	
		---		NA		21			
JBT0139	비오틴-Tids-GRGCTKVIVFTFRHNKLIGY-NH2 (SEQ ID NO: 3008)	---		34					
		---		NA	---	9	--	--	
		---		7 (0.625μM)	0.10	15			
JBT0140	비오틴-Tids-GCTKVIVFTFRHNKLIGYER-NH2 (SEQ ID NO: 3010)	---		0	---	10	18	25	
					0.05	NA			
JBT0141	비오틴-Tids-CTKVIVFTFRHNKLIGYERR-NH2 (SEQ ID NO: 3009)	---		0	---	14	34	55	
					0.04	NA			
JBT0142	비오틴-Tids-TKVIVFTFRHNKLIGYERRY-NH2 (SEQ ID NO: 3022)	---		0	---	7	12	--	
					1.96	12			
JBT0143	비오틴-Tids-KVIVFTFRHNKLIGYERRYN-NH2 (SEQ ID NO: 3023)	---		7	---	16	19	--	
		---		6	0.42	17			
JBT0144	비오틴-Tids-VIVFTFRHNKLIGYERRYNC-NH2 (SEQ ID NO: 3011)	---		NA	---	18	--	--	
		---		0	0.03	---			
JBT0145	비오틴-Tids-VIVFTFRHNKLIGYER-NH2 (SEQ ID NO: 3024)	---		0	---	5	--	--	
JBT0205	Ac-KKSGRGCTKVIVFTFRHNKLIGYERRYNCTSK-NH2 (SEQ ID NO: 3029)	---		40	---	34	134		
		1.64	87.46	49	0.11	36			
JBT0206*	Ac-TNYTGSEKCIRFVTRRYLGVRINCTHKGS-	---		0	---	22	--		

도면14c

	NH2 (SEQ ID NO: 3049)				---	17				
					0.22	20				
JBT0207*	Ac-TRNVVRRYECFGSTGCIKYFIHSRTGLNK-NH2 (SEQ ID NO: 3050)	---		9	---	8	--			
					---	6				
JBT0208	Ac-KKSGRGCTKVIVFTFRHNKLIGYERRYNKK-NH2 (SEQ ID NO: 3027)	---		7	---	18				
					---	24				
JBT0209	Ac-KKSGRGCTKVIVFTFRHNKLIGYERKK-NH2 (SEQ ID NO: 3051)	---		0	---	17				
JBT0210	Ac-KKSGRGCTKVIVFTFRHNKLIGKK-NH2 (SEQ ID NO: 3061)	---		0	---	17				
					---	13				
JBT0211	Ac-KKGCTKVIVFTFRHNKLIGYERRYNCTSKK-NH2 (SEQ ID NO: 3032)	---		42	---	31	182			
		---		48	0.04	35	(250)	(650)		
JBT0212	Ac-KKKVIVFTFRHNKLIGYERRYNCTSKK-NH2 (SEQ ID NO: 3033)	---		7	---	23	49			
		---		19	0.05	24				
JBT0213	Ac-KKVFTFRHNKLIGYERRYNCTSKK-NH2 (SEQ ID NO: 3083)	---		0	---	15				
JBT0214	Ac-KKGRGCTKVIVFTFRHNKLIGYKK-NH2 (SEQ ID NO: 3052)	---		0	---	15				
JBT0215	Ac-KKGCTKVIVFTFRHNKLIGYERKK-NH2 (SEQ ID NO: 3055)	---		1	---	16				
JBT0216	Ac-KKCTKVIVFTFRHNKLIGYERRKK-NH2 (SEQ ID NO: 3053)	---		6	---	18				
JBT0217	Ac-KKTKVIVFTFRHNKLIGYERRYKK-NH2 (SEQ ID NO: 3062)	---		1	1.06	18				
		---		11						

도면14d

JBT0218	Ac-KKKVIVFTFRHNKLIGYERRYNKK-NH2	---		4	1.18	12				
	(SEQ ID NO: 3063)	---		12						
JBT0219	Ac-KKVIVFTFRHNKLIGYERRYNCKK-NH2	---		8	---	17	29			
	(SEQ ID NO: 3030)	---		22	0.10	17				
JBT0220	Ac-KKIVFTFRHNKLIGYERRYNCTKK-NH2	---		0	---	15				
	(SEQ ID NO: 3064)				---	16				
JBT0349	Ac-GCTKVIVFTFRHNKLIGYERRYNCTS-NH2	---		19	---	28	54			
	(SEQ ID NO: 3041)	1.63	27.6	17	0.18	13				
JBT0350	Ac-CTKVIVFTFRHNKLIGYERRYNCTS-NH2	---		21	---	26	55			
	(SEQ ID NO: 3042)	1.65	33.8	18	0.27	16				
JBT0351	Ac-TKVIVFTFRHNKLIGYERRYNCTS-NH2	---		1	---	19	30			
	(SEQ ID NO: 3043)		no fit	0	0.21	8				
JBT0352	Ac-GCTKVIVFTFRHNKLIGYERRYNCT-NH2	---		24	---	24	65			
	(SEQ ID NO: 3044)	1.34	26.3	19	0.35	18				
JBT0353	Ac-GCTKVIVFTFRHNKLIGYERRYNC-NH2	---		28	---	30	76			
	(SEQ ID NO: 3045)	0.72	24.5	21	0.61	20				

도면15a

JBT-0101		FXa의 억제의 진행 곡선			TFPI에 의한 의인성 테나제 억제		인자 IIa 농도		
펩티드	서열	EC_{50} (μM)	% 억제 (Max)	% 억제 (2.5μM)	EC_{50} (μM)	% 억제 (2.5μM)	유도된 FVIII 결핍 FEIBA EA (mU/mL) Conc: 10μM	FVIII 결핍 (mU/mL) Conc: 10μM	FIX 결핍 (mU/mL) Conc: 10μM
JBT0052	비오틴-Tids-KKSGVWQTHPRYFWTMWPDIKGEVIVLFGTS KK-NH2 (SEQ ID NO: 3004)	---		NA	0.22	20			
		---		NA	0.39	23			
		1.47	57.24	52					
JBT0101	Ac-KKSGVWQTHPRYFWTMWPDIKGEVIVLFGTS KK-NH2 (SEQ ID NO: 3036)	---		NA	---	NA	65	164	40
		---		NA	1.42	22			
		2.25	50.13	26	0.24	21			
					---	20			
					0.17	22			
JBT0101	Ac-KKSGVWQTHPRYFWTMWPDIKGEVIVLFGTS KK-NH2 (SEQ ID NO: 3036)	2.01	45.27	26	---	19	68	38	
		---		NA			60		
		---		NA					
		---		NA					
		1.51	44.8	31					
JBT0101	Ac-KKSGVWQTHPRYFWTMWPDIKGEVIVLFGTS KK-NH2 (SEQ ID NO: 3036)	---		29	---	19			

도면15b

		---	18	0.25	14					
		1.94	37.47	19	0.61	19				
JBT0103	Ac-KKSGVWQTHPRYFWTMWPDIKGEVIVLFGTS-Tids-KK락이신(비오틴)-NH2 (SEQ ID NO: 3005)	---		NA	0.19	21				
		1.69	38.91	24	0.17	17				
JBT0176*	Ac-KKVGSVTRWSMYGPIFKFTWTLLEQPVGWDH KK-NH2 (SEQ ID NO: 3056)	---		0	---	17	150			
					---	16				
JBT0177*	Ac-KKLTGDWTYFWSKVIWGPGVIERQMPVSTFH KK-NH2 (SEQ ID NO: 3065)	---		4	---	15	--			
					---	10				
					---	10				
JBT0178	Ac-KKSGVWQTHPRYFWTMWPDIKGEVIVLFGTK K-NH2 (SEQ ID NO: 3028)			42	---	23	190	80		
		1.51	65.93	42	0.20	26	111			
JBT0179	Ac-KKSGVWQTHPRYFWTMWPDIKGEVIVLKK-NH2 (SEQ ID NO: 3066)	---		0	---	14				
JBT0180	Ac-KKSGVWQTHPRYFWTMWPDIKGEVKK-NH2 (SEQ ID NO: 3067)	---		0	---	5				
JBT0181	Ac-KKSGVWQTHPRYFWTMWPDIKKK-NH2 (SEQ ID NO: 3068)	---		0	---	2				
JBT0182	Ac-KKGVWQTHPRYFWTMWPDIKGEVIVLFGTSK K-NH2 (SEQ ID NO: 3037)	---		39	0.26	27	146			
		0.62	52.16	40						
JBT0183	Ac-KKQTHPRYFWTMWPDIKGEVIVLFGTSKK-NH2 (SEQ ID NO: 3069)	---		0	---	19				

도면15c

JBT0184	Ac-KKPRYFWTMWPDIKGEVIVLFGTSKK-NH2 (SEQ ID NO: 3070)	---		0	---	26			
					---	16			
JBT0185	Ac-KKFWTMWPDIKGEVIVLFGTSKK-NH2 (SEQ ID NO: 3057)	---		0	---	14			
JBT0186	Ac-KKSGVWQTHPRYFWTMWPDIKGKK-NH2 (SEQ ID NO: 3071)	---		0	---	3			
JBT0187	Ac-KKWQTHPRYFWTMWPDIKGEVIKK-NH2 (SEQ ID NO: 3072)	---		0	---	5			
JBT0188	Ac-KKIPRYFWTMWPDIKGEVIVLFKK-NH2 (SEQ ID NO: 3058)	---		0	---	21			
					---	17			
JBT0189	Ac-KKYFWTMWPDIKGEVIVLFGTSKK-NH2 (SEQ ID NO: 3059)	---		0	---	19			
JBT0354	Ac-KKGVWQTHPRYFWTMWPDIKGEVIVLFGTK K-NH2 (SEQ ID NO: 3088)	---		26	0.62	14			
		2.25	50.46	25	0.56	18			
JBT0355	Ac-KKVWQTHPRYFWTMWPDIKGEVIVLFGTKK-NH2 (SEQ ID NO: 3089)	---		12	---	14			
JBT0356	Ac-KKWQTHPRYFWTMWPDIKGEVIVLFGTKK-NH2 (SEQ ID NO: 3090)	---		11	no fit	11			
JBT0357	Ac-KKGVWQTHPRYFWTMWPDIKGEVIVLFGKK-NH2 (SEQ ID NO: 3035)	---		30	---	25			
		2.51	55.65	26	0.58	20			
JBT0358	Ac-KKGVWQTHPRYFWTMWPDIKGEVIVLFKK-NH2 (SEQ ID NO: 3046)	---		19	---	27			
		3.26	41.21	15	0.46	16			

JBT-0120		FXa의 억제의 진행 곡선			TFPI에 의한 외인성 테나제 억제		인자 IIa 농도		
펩티드	서열	EC_{50} (μM)	%억제 (Max)	%억제 (2.5μM)	EC_{50} (μM)	%억제 (2.5μM)	유도된 FVIII 결핍 FEIBA EA (mU/mL) Conc: 10μM	FVIII 결핍 (mU/mL) Conc: 10μM	FIX 결핍 (mU/mL) Conc: 10μM
JBT0120	Ac-SGASRYKWF[CGMRDMKGTMSC]VWVKFRYDTS-NH2 (SEQ ID NO: 1047)	---		NA	0.94	35	298	374	162
		0.90	85.30	58	1.84	31			
		1.50	88.65	48					
JBT0120	Ac-SGASRYKWF[CGMRDMKGTMSC]VWVKFRYDTS-NH2 (SEQ ID NO: 1047)	1.50	74.75	43	0.86	45	355		
							258		
		1.29	69.17	43	0.88	45			
JBT0120	Ac-SGASRYKWF[CGMRDMKGTMSC]VWVKFRYDTS-NH2 (SEQ ID NO: 1047)	1.18	50.68	34	1.18	46	326	288	
		---		37	---	48	383		
		---		38			299		
		1.26	46.06	32	0.38	40			
JBT0120	Ac-SGASRYKWF[CGMRDMKGTMSC]VWVKFRYDTS-NH2***HCL** (SEQ ID NO: 1047)	2.64	93.62	43	0.98	43			
JBT0124	비오틴-Ttds-SGASRYKWFCGMRDMKGTMSCVWVKFRYDTS-NH2 (SEQ ID NO: 1290)	1.59	73.59	41	1.26	36			
JBT0247	Ac-	---		43	---	44	273		

도면16a

도면16b

	SGASRYKWFCGMRDMKGTMSCVWVKFRYDTS-NH2 (SEQ ID NO: 1213)		0.79	50.9	42	0.61	42			
JBT0248	Ac-KKSGASRYKWF[CGMRDMKGTMSC]VWVKFRYDTSKK-NH2 cyc. (SEQ ID NO: 1001)	---			54	---	60	164		
		0.82	76.13	53	0	0.27	52			
JBT0249	Ac-KKSGASRYKWFCGMRDMKGTMSKK-NH2 (SEQ ID NO: 1214)	---			0	---	3	inhib		
						---	17			
						1.06	16			
JBT0250	Ac-KKSRYKWFCGMRDMKGTMSCVWKK-NH2 (SEQ ID NO: 1201)	---			0		15	inhib		
		---			11	---	20	inhib		
						0.61	19			
						---	17			
JBT0251	Ac-KKKWFCGMRDMKGTMSCVWVKFKK-NH2 (SEQ ID NO: 1202)	---			17	0.63	23	inhib		
		0.66	24.03	16				inhib		
		---		11	---	18				
JBT0252	Ac-KKCGMRDMKGTMSCVWVKFRYDKK-NH2 (SEQ ID NO: 1215)	---		13	1.02	18	inhib			
		6.27	37.09	11						
JBT0253	Ac-KKMRDMKGTMSCVWVKFRYDTSKK-NH2 (SEQ ID NO: 1216)	---		0	---	15	inhib			
					---	23				
					0.55	23				
JBT0319	Ac-SGASRYKWFCGMRDMKGTMSCVWVKFRY-NH2, cyc (SEQ ID NO: 1002)	0.51	71.07	59	---	56	383	293		
							294			
JBT0319	Ac-SGASRYKWFCGMRDMKGTMSCVWVKFRY-	0.30	82.38	72	---	60	466			

도면16c

JBT0320	NH2, cyc (SEQ ID NO: 1002)								
JBT0321	Ac-SGASRYKWF[CGMRDMKGTMSC]VWVK-NH2 (SEQ ID NO: 1103)	18.80	73.34	9	6.40	7	153		
JBT0322	Ac-SGASRYKWFCGMRDMKGTMSCV-NH2 (SEQ ID NO: 1217)	---		0	0	---	1	--	
JBT0322	Ac-SGASRYKWFCGMRDMKGTM-NH2 (SEQ ID NO: 1218)	---		0	---	5	--		
JBT0322	Ac-SGASRYKWFCGMRDMKGTM-NH2 (SEQ ID NO: 1218)	---		0	---	3	--		
JBT0323	Ac-SRYKWFI[CGMRDMKGTMSC]VWVKFRYDTS-NH2 (SEQ ID NO: 1076)	0.72	51.55	42	0.77	48	355	314	
							285		
JBT0324	Ac-KWFCGMRDMKGTMSCVWVKFRYDTS-NH2 (SEQ ID NO: 1155)	---		0	2.44	18	91		
JBT0325	Ac-[CGMRDMKGTMSC]VWVKFRYDTS-NH2 (SEQ ID NO: 1219)	---		0	---	4	--		
JBT0326	Ac-RDMKGTMSCVWVKFRYDTS-NH2 (SEQ ID NO: 1220)	---		0	---	3	--		
JBT0326	Ac-RDMKGTMSCVWVKFRYDTS-NH2 (SEQ ID NO: 1220)						--		
JBT0327	Ac-SGASRYKWFCGMRDMKGTMS-NH2 (SEQ ID NO: 1222)	---		0	---	0	--		
JBT0328	Ac-SRYKWFCGMRDMKGTMSCVW-NH2 (SEQ ID NO: 1223)	---		0	---	1	--		
JBT0329	Ac-KWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1156)	---		2	---	8	70	66	
		---		4	---	13	40		
		no fit		7	3.53	6	84		
JBT0330	Ac-CGMRDMKGTMSCVWVKFRYD-NH2 (SEQ ID NO: 1224)	---		0	---	9	--		
JBT0330	Ac-[CGMRDMKGTMSC]VWVKFRYD-NH2 (SEQ ID NO: 1224)	---		0	---	7			
JBT0331	Ac-MRDMKGTMSCVWVKFRYDTS-NH2 (SEQ	---		0	---	5	--		

도면16d

	ID NO: 1225)								
JBT0331	Ac-MRDMKGTMSCVWVKFRYDTS-NH2 (SEQ ID NO: 1225)	---	0	---	5	--			
JBT0332	Ac-SRYKWFCGMRDMKGTMSCVW-NH2 (SEQ ID NO: 1206)	---	1	---	5	--			
JBT0333	Ac-KWFCGMRDMKGTMSCVWVKF-NH2 (SEQ ID NO: 1207)	---	3	---	12	40	--		
JBT0333	Ac-KWFCGMRDMKGTMSCVWVKF-NH2 (SEQ ID NO: 1207)	---	4	---	11	114			
JBT0334	Ac-CGMRDMKGTMSCVWVKFRYD-NH2 (SEQ ID NO: 1227)	---	0	---	3	--	--		
JBT0409	Ac-SGASRYKWFSGMRDMKGTMSSVWVKFRYDT S-NH2 (SEQ ID NO: 1204)	---	0	---	5	inhib			
JBT0410	Ac-SGASRYKWFSG-Nle-RD-Nle-KGT-Nle-SSVWVKFRYDTS-NH2 (SEQ ID NO: 1208)	---	0	---	7	inhib			
JBT0411	Ac-SGASRYKWF[CG-Nle-RD-Nle-KGT-Nle-SC]VWVKFRYDTS-NH2 (SEQ ID NO: 1104)	---	11	---	24	97			
JBT0412	Ac-KWF[CG-Nle-RD-Nle-KGT-Nle-SC]VWVKF-NH2 (SEQ ID NO: 1209)	---	7	---	12	46			
JBT0413	Ac-KWFSGMRDMKGTMSSVWVKF-NH2 (SEQ ID NO: 1228)	---	0	---	2	inhib			
JBT0414	Ac-KWFSG-Nle-RD-Nle-KGT-Nle-SSVWVKF-NH2 (SEQ ID NO: 1205)	---	4	---	8	inhib			
JBT0415	Ac-SRYKWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1003)	---	59	---	43	359			
		---	66						
		0.38	74.56	61	0.19	52			
JBT0416	Ac-SRYKWF[CG-Nle-RD-Nle-KGT-Nle-SC]VWVKF-NH2 (SEQ ID NO: 1077)	---	52	---	46	256			
JBT0417	Ac-SRYKWFSGMRDMKGTMSSVWVKF-NH2 (SEQ ID NO: 1229)	---	2	---	11	inhib			
		no fit	0	no fit	6				

도면16e

JBT0418	Ac-SRYKWFSG-Nle-RD-Nle-KGT-Nle-SSVWVKF-NH2 (SEQ ID NO: 1210)	---		4	---	11	inhib	
JBT0435*	Ac-RKRRDVSGKM[CWSGFGSKWFRC]ADMMTYY SVT-NH2 (SEQ ID NO: 1211)	---		0	---	5		
JBT0436*	Ac-RWSGKSTYS[CDAMVRRMGMKC]FSFGWTDV YK-NH2 (SEQ ID NO: 1212)	---		0	---	0		

도면17a

JBT-0121		FXa의 억제의 진행 곡선			TFPI에 의한 외인성 테나제 억제		인자 IIa 농도		
펩티드	서열	EC_{50} (μM)	%억제 (Max)	%억제 (2.5μM)	EC_{50} (μM)	%억제 (2.5μM)	유도된 FVIII 결핍 FEIBA EA (mU/mL)	FVIII 결핍 (mU/mL)	FIX 결핍 (mU/mL)
							Conc: 10μM	Conc: 10μM	Conc: 10μM
JBT0121	Ac-SGGRKHKHFLRSNGKPSRALCSMHFWRWSTS-NH2 (SEQ ID NO: 3091)	---		NA	---	15	22	37	25
		0.08	14.44	14	0.17	11	inhib		
		---		8	---	19			
JBT0125	비오틴-Tids-SGGRKHLHFLRSNGKPSRALCSMHFWRWSTS-NH2 (SEQ ID NO: 3092)	0.10	17.22	15	0.45	9			
JBT0419	Ac-SGGRKHKHFLRSNGKPSRALSSMHFWRWSTS-NH2 (SEQ ID NO: 3093)	---		6	---	7			
JBT0420*	Ac-KGSSRSGHNALKTHSWMSPFRRRGSWSLHFK-NH2 (SEQ ID NO: 3094)	---		3	---	10	inhib		
JBT0421*	Ac-KSRSGFWHAWSHRTRPMKSRLHLGKFSNSSG-NH2 (SEQ ID NO: 3095)	---		3	---	5			
JBT0422	Ac-SGGRKHKHFLRSNGKPSRALSSMHFWRW-NH2 (SEQ ID NO: 3096)	---		4	---	11	inhib		
JBT0423	Ac-SGGRKHKHFLRSNGKPSRALSSMHF-NH2 (SEQ ID NO: 3097)	---		2	---	1	inhib		
JBT0424	Ac-SGGRKHKHFLRSNGKPSRALSS-NH2 (SEQ	---		1	---	0	--		

도면17b

	ID NO: 3098)								
JBT0425	Ac-SGGRKHKHFLRSNGKPSRA-NH2 (SEQ ID NO: 3099)	---		3	---	0			
JBT0426	Ac-RKHKHFLRSNGKPSRALSSMHFWRWSTS-NH2 (SEQ ID NO: 3100)	---		2	---	8	inhib		
JBT0427	Ac-KHFLRSNGKPSRALSSMHFWRWSTS-NH2 (SEQ ID NO: 3101)	---		0	---	0			
JBT0428	Ac-LRSNGKPSRALSSMHFWRWSTS-NH2 (SEQ ID NO: 3102)	---		2	---	1	--		
JBT0429	Ac-NGKPSRALSSMHFWRWSTS-NH2 (SEQ ID NO: 3103)	---		0	---	0			
JBT0430	Ac-SGGRKHKHFLRSNGKPSRAL-NH2 (SEQ ID NO: 3104)	---		0	---	0			
JBT0431	Ac-RKHKHFLRSNGKPSRALSSM-NH2 (SEQ ID NO: 3105)	---		2	---	8			
JBT0432	Ac-KHFLRSNGKPSRALSSMHFW-NH2 (SEQ ID NO: 3106)	---		3	---	1	--		
JBT0433	Ac-LRSNGKPSRALSSMHFWRWS-NH2 (SEQ ID NO: 3107)	---		0	---	1	--		
JBT0434	Ac-SNGKPSRALSSMHFWRWSTS-NH2 (SEQ ID NO: 3108)	---		0	---	0			

도면18a

JBT-0122		FXa의 억제의 진행 곡선			TFPI에 의한 외인성 테나제 억제		인자 IIa 농도		
펩티드	서열	EC_{50} (μM)	%억제 (Max)	%억제 (2.5μM)	EC_{50} (μM)	%억제 (2.5μM)	유도된 FVIII 결핍 FEIBA EA (mU/mL) Conc: 10μM	FVIII 결핍 (mU/mL) Conc: 10μM	FIX 결핍 (mU/mL) Conc: 10μM
JBT0122	AC-SGYASFPLAVQLHVSKRSKEMALARLYYKTS-NH2 (SEQ ID NO: 2002)	---		NA	12.7	5	115	139	60
		15.5	93.8	15	39.5	8	175		
		7.92	78.52	23			183	160	
		---		9	---	9	210		
		---		11					
JBT0122	Ac-SGYASFPLAVQLHVSKRSKEMALARLYYKTS-NH2*HCL (SEQ ID NO: 2002)	15.81	64.12	6	6.70	7			
JBT0126	비오틴-Tids-SGYASFPLAVQLHVSKRSKEMALARLYYKTS-NH2 (SEQ ID NO: 2498)	---		NA	5.05	5			
		14.1	88.4	17					
JBT0221	Ac-KKSGYASFPLAVQLHVSKRSKEMALARLYYK TSKK-NH2 (SEQ ID NO: 2003)	---		10	3.37	19	218		
		---		29					
JBT0222*	Ac-MKSRSLGLAYFAKHSSLEVLQTRKVAAPYY-NH2 (SEQ ID NO: 2127)	---		0	---	4	--		

도면18b

JBT0223*	Ac-KMQLRVYASTAHSRYLLGSSLFPKYAEVKA-NH2 (SEQ ID NO: 2297)	---		0	---	5	--			
					---	1				
					---	3				
JBT0224	Ac-KKSGYASFPLAVQLHVSKRSKEMALARLYYK-NH2 (SEQ ID NO: 2298)	---		14	3.49	18	191			
		---		26			203	162		
JBT0225	Ac-KKSGYASFPLAVQLHVSKRSKEMALARKK-NH2 (SEQ ID NO: 2128)	---		9	---	0	55			
		---		12						
JBT0226	Ac-KKSGYASFPLAVQLHVSKRSKEMAKK-NH2 (SEQ ID NO: 2299)	---		4	---	0				
		---		6						
JBT0227	Ac-KKSGYASFPLAVQLHVSKRSKKK-NH2 (SEQ ID NO: 2300)	---		0	---	5				
JBT0228	Ac-KKASFPLAVQLHVSKRSKEMALARLYYKTSK-NH2 (SEQ ID NO: 2016)	---		4	6.93	9				
		---		21						
JBT0229	Ac-KKPLAVQLHVSKRSKEMALARLYYKTSKK-NH2 (SEQ ID NO: 2129)	---		0	---	0				
JBT0230	Ac-KKVQLHVSKRSKEMALARLYYKTSKK-NH2 (SEQ ID NO: 2301)	---		0	---	0				
					---	0				
JBT0231	Ac-KKHVSKRSKEMALARLYYKTSKK-NH2 (SEQ ID NO: 2302)	---		0	---	0				
JBT0232	Ac-KKGYASFPLAVQLHVSKRSKEMKK-NH2 (SEQ ID NO: 2303)	---		4	---	2				

도면18c

JBT0233	Ac-KKYASFPLAVQLHVSKRSKEMAKK-NH2 (SEQ ID NO: 2304)	---	13.25	38.12	6				
		---			8				
JBT0234	Ac-KKVQLHVSKRSKEMALARLYYKKK-NH2 (SEQ ID NO: 2305)	---			0	---	3		
JBT0235	Ac-KKQLHVSKRSKEMALARLYYKTKK-NH2 (SEQ ID NO: 2306)	---			0	---	0		
						---	0		
JBT0236	Ac-KKLHVSKRSKEMALARLYYKTSKK-NH2 (SEQ ID NO: 2307)	---			0	---	0		
JBT0237	Ac-KKSGYASFPLAVQLHVSKRSKFKK-NH2 (SEQ ID NO: 2308)	---			0	---	2		
JBT0359	Ac-ASFPLAVQLHVSKRSKEMA-NH2 (SEQ ID NO: 2309)	---			0	---	6	---	
JBT0360	Ac-SFPLAVQLHVSKRSKEMA-NH2 (SEQ ID NO: 2310)	---			1	---	2	---	
JBT0361	Ac-FPLAVQLHVSKRSKEMA-NH2 (SEQ ID NO: 2311)	---			0	---	9	---	
JBT0362	Ac-ASFPLAVQLHVSKRSKEM-NH2 (SEQ ID NO: 2312)	---			0	---	6	---	
JBT0363	Ac-ASFPLAVQLHVSKRSKE-NH2 (SEQ ID NO: 2313)	---			0	---	9	---	
JBT0364	Ac-ASFPLAVQLHVSKRSKEMAL-NH2 (SEQ ID NO: 2314)	---			2	---	12	---	
JBT0365	Ac-ASFPLAVQLHVSKRSKEMALA-NH2 (SEQ ID NO: 2315)	---			0	---	9	---	
JBT0366	Ac-ASFPLAVQLHVSKRSKEMALAR-NH2 (SEQ ID NO: 2316)	---			0	---	11	---	
JBT0367	Ac-ASFPLAVQLHVSKRSKEMALARL-NH2 (SEQ ID NO: 2317)	---			2	---	10	28	
JBT0368	Ac-ASFPLAVQLHVSKRSKEMALARLY-NH2 (SEQ ID NO: 2130)	---			0	---	8	36	
JBT0369	Ac-ASFPLAVQLHVSKRSKEMALARLYY-NH2	---			2	---	9	68	

도면18d

	(SEQ ID NO: 2017)							
JFT0370	Ac-YASFPLAVQLHVSKRSKEMA-NH2 (SEQ ID NO: 2318)	---		2	---	0	39		
JFT0371	Ac-GYASFPLAVQLHVSKRSKEMA-NH2 (SEQ ID NO: 2319)	---		8	---	1	60		

도면19a

JBT0047 클랙스		BiaCore		
펩티드	서열	k_{on} (1/Ms)	k_{off} (1/s)	K_D (M)
JBT0047	Ac-SGVGRLQVAFQSKKNVFVFGYFERLRAKLTS-NH2 (SEQ ID NO: 253)	3.98E+05	1.88E-02	4.72E-08
JBT0131	비오틴-Tds-AFQSKKNVFVFGYFERLRAK-NH2 (SEQ ID NO: 964)	1.38E+05	5.94E-02	4.31E-07
JBT0132	비오틴-Tds-FQSKKNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 965)	3.55E+04	3.26E-02	9.17E-07
JBT0155	Ac-KKSGVGRLQVAFQSKKNVFVFGYFERLRAKLTSKK-NH2 (SEQ ID NO: 8)	1.64E+05	7.25E-03	4.41E-08
JBT0158	Ac-KKSGVGRLQVAFQSKKNVFVFGYFERLRAKKK-NH2 (SEQ ID NO: 9)	4.49E+05	3.27E-02	7.29E-08
JBT0164	Ac-KKFQSKKNVFVFGYFERLRAKLTSKK-NH2 (SEQ ID NO: 12)	2.26E+05	1.05E-02	4.65E-08
JBT0170	Ac-KKFQSKKNVFVFGYFERLRAKLKK-NH2 (SEQ ID NO: 13)	4.09E+05	9.34E-03	2.28E-08
JBT0175	Ac-KKAFQSKKNVFVFGYFERLRAKLTKK-NH2 (SEQ ID NO: 182)	2.70E+05	1.67E-02	6.18E-08
JBT0293	Ac-FQSKKNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 256)	2.17E+05	2.12E-02	9.74E-08
JBT0294	Ac-YQSKKNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 257)	5.69E+05	3.92E-02	6.90E-08
JBT0297	Ac-FQSKNNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 183)	5.69E+05	3.92E-02	6.90E-08
JBT0302	Ac-FQSKKNVFVAGYFERLRAKL-NH2 (SEQ ID NO: 258)	1.02E+06	8.47E-02	8.27E-08
JBT0303	Ac-FQSKKNVFVDGYFERLRAKL-NH2 (SEQ ID NO: 184)	8.13E+05	2.75E-02	3.38E-08
JBT0305	Ac-FQSKKNVFVQGYFERLRAKL-NH2 (SEQ ID NO: 260)	7.45E+05	3.07E-02	4.11E-08
JBT0306	Ac-FQSKKNVFVSGYFERLRAKL-NH2 (SEQ ID NO: 185)	6.56E+05	3.61E-02	5.50E-08
JBT0307	Ac-FQSKKNVFVYGYFERLRAKL-NH2 (SEQ ID NO: 261)	5.95E+05	3.15E-02	5.30E-08
JBT0310	Ac-FQSKKNVFVFGYFDRLRAKL-NH2 (SEQ ID NO: 262)	5.62E+04	1.05E-02	1.87E-07
JBT0337	Ac-FQSKNNVFVDGYFDRLRAKL-NH2 (SEQ ID NO: 16)	2.90E+05	5.30E-03	1.83E-08
JBT0342	Ac-FQSKNNVFVDGYFERLRAKL-NH2 (SEQ ID NO: 19)	3.92E+05	6.55E-03	1.67E-08
JBT0343	Ac-FQSKKNVFVDGYFDRLRAKL-NH2 (SEQ ID NO: 188)	3.28E+05	1.46E-02	4.46E-08
JBT0375	Ac-FQSKGNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 190)	4.00E+05	1.21E-02	3.04E-08
JBT0471	Ac-FQSKGNVFVTGYFERLRAKL-NH2 (SEQ ID NO: 26)	7.03E+05	9.34E-03	1.33E-08
JBT0474	Ac-FQSKGNVFVKGYFERLRAKL-NH2 (SEQ ID NO: 29)	9.95E+05	1.49E-02	1.50E-08

도면19b

JBT0477	Ac-FQSKGNVFVDGYFERLRAKL-NH2 (SEQ ID NO: 32)	3.72E+05	3.02E-03	8.10E-09	
JBT0500	Ac-FQSK-Nmet(Gly-NVFVFGYFERLRAKL-NH2 (SEQ ID NO: 46)	2.52E+05	2.06E-03	8.19E-09	
JBT0683	Ac-FQSK-Nmg-AVFVDGYFARLRAKL-NH2 (SEQ ID NO: 55)	1.00E+06	1.07E-03	1.07E-09	
JBT0765	Ac-FQSKGNVFVDGYFERL-Eew-AKL-NH2 (SEQ ID NO: 68)	2.31E+05	1.85E-03	8.00E-09	
JBT0789	Ac-FQSK-Nmg-NVFVDGYFERL-Nle-AKL-NH2 (SEQ ID NO: 71)	1.92E+05	4.06E-04	2.12E-09	
JBT1122	Ac-FQSK-Nmg-NVFVDGYFARL-Nle-AKL-NH2 (SEQ ID NO: 113)	6.99E+04	9.61E-04	1.38E-08	
JBT1141	Ac-FQSKKAVFVKGYFARLRAKL-NH2 (SEQ ID NO: 120)	1.36E+05	3.16E-03	2.33E-08	
JBT1144	Ac-FQSKdAVFVKGYFARLRAKL-NH2 (SEQ ID NO: 121)	3.05E+05	1.00E-02	3.28E-08	

도면20

JBT0120 클래스			BiaCore		
펩티드	서열	k_{on} (1/Ms)	k_{off} (1/s)	K_D (M)	
JBT0120	Ac-SGASRYKWFI[CGMRDMKGTMSC]VWVKFRYDTS-NH2 (SEQ ID NO: 1047)	1.17E+06	4.78E-02	4.08E-08	
JBT0320	Ac-SGASRYKWFI[CGMRDMKGTMSC]VWVK-NH2 (SEQ ID NO: 1103)	1.78E+05	4.25E-02	2.38E-07	
JBT0324	Ac-KWFCGMRDMKGTMSCVWVKFRYDTS-NH2 (SEQ ID NO: 1155)	1.54E+04	6.36E-03	4.14E-07	
JBT0415	Ac-SRYKWFI[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1003)	1.75E+05	2.24E-02	1.28E-07	
JBT0444	Ac-SRYKWFI[CAMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1004)	4.18E+05	1.21E-02	2.90E-08	
JBT0447	Ac-SRYKWFI[CGMRAMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1158)	6.86E+03	5.60E-03	8.16E-07	
JBT0455	Ac-SRYKWFI[CGMRDMKGTMSC]AWVKF-NH2 (SEQ ID NO: 1049)	4.77E+05	3.03E-02	6.35E-08	
JBT0643	Ac-SRYKWFI[CGMPDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1006)	1.78E+05	3.22E-02	1.81E-07	

도면21

JBT0122 클래스			BiaCore		
펩티드	서열		k_{on} (1/Ms)	k_{off} (1/s)	K_D (M)
JBT0122	AC-SGYASFPLAVQLHVSKRSKEMALARLYYKTS-NH2 (SEQ ID NO: 2002)		1.13E+04	2.23E-02	1.97E-06
JBT0221	Ac-KKSGYASFPLAVQLHVSKRSKEMALARLYYKTSKK-NH2 (SEQ ID NO: 2003)		6.31E+04	1.19E-02	1.88E-07
JBT0224	Ac-KKSGYASFPLAVQLHVSKRSKEMALARLYYKK-NH2 (SEQ ID NO: 2298)		6.39E+04	1.95E-02	3.05E-07

도면22a

JBT0047 클래스			**FXa** 억제 분석			
펩티드	서열		**EC50 (μM)**	최대 억제 (%)	2.5μM에서 % 억제	0.63μM에서 % 억제
JBT0047	Ac-SGVGRLQVAFQSKKNVFVFGYFERLRAKLTS-NH2 (SEQ ID NO: 253)		0.72		68	
JBT0051	비오틴-Ttds-SGVGRLQVAFQSKKNVFVFGYFERLRAKLTS-NH2 (SEQ ID NO: 962)		0.53		66	
JBT0055	Ac-SGVGRLQVAFQSKKNVFVFGYFERLRAKLTS-Ttds-라이신(비오틴)-NH2 (SEQ ID NO: 963)		0.53		72	
JBT0131	비오틴-Ttds-AFQSKKNVFVFGYFERLRAK-NH2 (SEQ ID NO: 964)		8.20		23	
JBT0132	비오틴-Ttds-FQSKKNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 965)		1.15		36	
JBT0133	비오틴-Ttds-QSKKNVFVFGYFERLRAKLT-NH2 (SEQ ID NO: 966)				15	
JBT0134	비오틴-Ttds-QSKKNVFVFGYFERLRAK-NH2 (SEQ ID NO: 967)				5	
JBT0155	Ac-KKSGVGRLQVAFQSKKNVFVFGYFERLRAKLTSKK-NH2 (SEQ ID NO: 8)		0.97		54	
JBT0156*	Ac-VVEKLTFVQLSFLNRRFSQYAGFKGAGKV-NH2 (SEQ ID NO: 742)				0	
JBT0157*	Ac-RVFLYFSGKAGGLVKLVERQAFQTNVSKFR-NH2 (SEQ ID NO: 743)				0	
JBT0158	Ac-KKSGVGRLQVAFQSKKNVFVFGYFERLRAKKK-NH2 (SEQ ID NO: 9)		4.26		35	
JBT0159	Ac-KKSGVGRLQVAFQSKKNVFVFGYFERLKK-NH2 (SEQ ID NO: 744)				0	
JBT0160	Ac-KKSGVGRLQVAFQSKKNVFVFGYFKK-NH2 (SEQ ID NO: 745)				0	
JBT0161	Ac-KKSGVGRLQVAFQSKKNVFVFKK-NH2 (SEQ ID NO: 746)				0	
JBT0162	Ac-KKGRLQVAFQSKKNVFVFGYFERLRAKLTSKK-NH2 (SEQ ID NO: 10)		0.74		54	
JBT0163	Ac-KKQVAFQSKKNVFVFGYFERLRAKLTSKK-NH2 (SEQ ID NO: 11)		1.54		48	
JBT0164	Ac-KKFQSKKNVFVFGYFERLRAKLTSKK-NH2 (SEQ ID NO: 12)		1.74		43	
JBT0165	Ac-KKKKNVFVFGYFERLRAKLTSKK-NH2 (SEQ ID NO: 712)				0	
JBT0166	비오티닐-Ttds-KKFQSKKNVFVFGYFERLRAKLKK-NH2 (SEQ ID NO: 968)		2.60		50	
JBT0167*	비오티닐-Ttds-GKNAKFYLFESLRQVKFVFR-NH2 (SEQ ID NO: 969)				0	

도면22b

JBT0168*	비오티닐-Tds-YKFSFNKELFKQARLRFVGV-NH2 (SEQ ID NO: 970)			0	
JBT0169	Ac-KKAFQSKKNVFVFGYFERLRAKKK-NH2 (SEQ ID NO: 254)			16	
JBT0170	Ac-KKFQSKKNVFVFGYFERLRAKLKK-NH2 (SEQ ID NO: 13)			61	
JBT0171	Ac-KKQSKKNVFVFGYFERLRAKLJKK -NH2 (SEQ ID NO: 255)			25	
JBT0172	Ac-KKQSKKNVFVFGYFERLRAKKK-NH2 (SEQ ID NO: 406)			7	
JBT0173	비오티닐-Tds-SGVGRLQVAFQSKKNVFVFG-NH2 (SEQ ID NO: 971)			0	
JBT0174	Ac-KKAFQSKKNVFVFGYFERLRAKLKK-NH2 (SEQ ID NO: 14)			47	
JBT0175	Ac-KKAFQSKKNVFVFGYFERLRAKLJKK-NH2 (SEQ ID NO: 182)	2.71		40	
JBT0293	Ac-FQSKKNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 256)	3.11	61	26	8
JBT0294	Ac-YQSKKNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 257)	4.07		40	
JBT0295	Ac-FSSKKNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 713)			2	
JBT0296	Ac-FQNKKNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 407)	4.91		19	
JBT0297	Ac-FQSKNNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 183)	0.63		59	
JBT0298	Ac-FQSKQNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 747)	1.83		42	
JBT0299	Ac-EQSKKNVFAFGYFERLRAKL-NH2 (SEQ ID NO: 408)	15.31		9	
JBT0300	Ac-FQSKKNVFSFGYFERLRAKL-NH2 (SEQ ID NO: 409)			7	
JBT0301	Ac-FQSKKNVFTFGYFERLRAKL-NH2 (SEQ ID NO: 410)			9	
JBT0302	Ac-FQSKKNVFVAGYFERLRAKL-NH2 (SEQ ID NO: 258)	2.10		47	
JBT0303	Ac-FQSKKNVFVDGYFERLRAKL-NH2 (SEQ ID NO: 184)	0.88	69	50	26
JBT0304	Ac-FQSKKNVFVLGYFERLRAKL-NH2 (SEQ ID NO: 259)	2.95		32	
JBT0305	Ac-FQSKKNVFVQGYFERLRAKL-NH2 (SEQ ID NO: 260)	2.28		45	
JBT0306	Ac-EQSKKNVFVSGYFERLRAKL-NH2 (SEQ ID NO: 185)	3.56		37	
JBT0307	Ac-FQSKKNVFVYGYFERLRAKL-NH2 (SEQ ID NO: 261)	3.42		34	
JBT0308	Ac-FQSKKNVFVFGYKERLRAKL-NH2 (SEQ ID NO: 411)			9	
JBT0309	Ac-FQSKKNVFVFGYYERLRAKL-NH2 (SEQ ID NO: 412)	4.50		19	
JBT0310	Ac-FQSKKNVFVFGYFDRLRAKL-NH2 (SEQ ID NO: 262)	3.86		26	
JBT0311	Ac-FQSKKNVFVFGYFERLRAKN-NH2 (SEQ ID NO: 748)			5	
JBT0335	Ac-FQSKKNVFVFGYFERLRAK-NH2 (SEQ ID NO: 749)	6.20		2	
JBT0336	Ac-FQSKNNVFVAGYFDRLRAKL-OH (SEQ ID NO: 263)	6.52		19	

도면22c

JBT0337	Ac-FQSKNNVFVDGYFDRLRAKL-NH2 (SEQ ID NO: 16)	0.71		51		
JBT0338	Ac-FQSKNNVFVQGYFDRLRAKL-NH2 (SEQ ID NO: 17)	1.12		40		
JBT0339	Ac-FQSKNNVFVSGYFDRLRAKL-NH2 (SEQ ID NO: 18)	1.22		42		
JBT0340	Ac-FQSKNNVFVYGYFDRLRAKL-NH2 (SEQ ID NO: 186)	1.87		37		
JBT0341	Ac-FQSKNNVFVFGYFDRLRAKL-NH2 (SEQ ID NO: 187)	1.08		38		
JBT0342	Ac-FQSKNNVFVDGYFERLRAKL-NH2 (SEQ ID NO: 19)	0.38		58		
JBT0343	Ac-FQSKKNVFVDGYFDRLRAKL-NH2 (SEQ ID NO: 188)	1.08		34		
JBT0374	Ac-FQSKDNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 20)	0.75	66	52	27	
JBT0375	Ac-FQSKGNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 190)	0.41	73	65	40	
JBT0376	Ac-FQSKKNAFVFGYFERLRAKL-NH2 (SEQ ID NO: 414)			11		
JBT0377	Ac-FQSKKNQFVFGYFERLRAKL-NH2 (SEQ ID NO: 264)			20		
JBT0378	Ac-FQSKKNVFVEGYFERLRAKL-NH2 (SEQ ID NO: 21)	1.59	79	44		
JBT0379	Ac-FQSKKNVFVTGYFERLRAKL-NH2 (SEQ ID NO: 22)	3.13	81	36		
JBT0380	Ac-FQSKKNVFVVGYFERLRAKL-NH2 (SEQ ID NO: 191)	2.59	73	34		
JBT0381	Ac-FQSPKNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 265)	3.28	81	34		
JBT0385	Ac-FQSKKNNFVFGYFERLRAKL-NH2 (SEQ ID NO: 672)			0		
JBT0386	Ac-FQSKKNPFVFGYFERLRAKL-NH2 (SEQ ID NO: 415)			6		
JBT0388	Ac-FQSKKNVHVFGYFERLRAKL-NH2 (SEQ ID NO: 192)	4.34	73	26		
JBT0389	Ac-FQSKKNVVVFGYFERLRAKL-NH2 (SEQ ID NO: 673)			0		
JBT0390	Ac-FQSKKNVFQFGYFERLRAKL-NH2 (SEQ ID NO: 674)			0		
JBT0391	Ac-FQSKKNVFVGGYFERLRAKL-NH2 (SEQ ID NO: 266)	7.02	74	18		
JBT0392	Ac-FQSKKNVFVHGYFERLRAKL-NH2 (SEQ ID NO: 23)	2.48	74	37		
JBT0393	Ac-FQSKKNVFVKGYFERLRAKL-NH2 (SEQ ID NO: 193)	3.02	64	28		
JBT0394	Ac-FQSKKNVFVMGYFERLRAKL-NH2 (SEQ ID NO: 24)	6.83	57	12		
JBT0395	Ac-FQSKKNVFVNGYFERLRAKL-NH2 (SEQ ID NO: 25)	2.80	72	32		
JBT0396	Ac-FQSKKNVFVPGYFERLRAKL-NH2 (SEQ ID NO: 194)	4.33	77	30		
JBT0397	Ac-FQSKKNVFVRGYFERLRAKL-NH2 (SEQ ID NO: 195)	5.09	72	23		
JBT0398	Ac-FQSKKNVFVFGYFEELRAKL-NH2 (SEQ ID NO: 196)			4		
JBT0399	Ac-FQSKKNVFVFGYFELLRAKL-NH2 (SEQ ID NO: 750)			0		

도면22d

JBT0400	Ac-FQSKKNVFVFGYFLRLRAKL-NH2 (SEQ ID NO: 267)			1		
JBT0401	Ac-FQSKKNVFVFGYFERLRAVL-NH2 (SEQ ID NO: 416)			0		
JBT0402	비오틴-Tds-FQSKNNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 973)	0.32	45	48		
JBT0403	비오틴-Tds-FQSKKNVFVDGYFERLRAKL-NH2 (SEQ ID NO: 972)	0.49	64	59		
JBT0404	비오틴-Tds-FQSKKNVFVFGYFDRLRAKL-NH2 (SEQ ID NO: 974)	1.89	43	24		
JBT0405	비오틴-FQSKKNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 975)	0.86	81	59		
JBT0406	Ac-Tds-FQSKKNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 268)			28		
JBT0471	Ac-FQSKGNVFVTGYFERLRAKL-NH2 (SEQ ID NO: 26)	0.41	77	64	45	
JBT0472	Ac-FQSKGNVFVNGYFERLRAKL-NH2 (SEQ ID NO: 27)	0.37	60	49	34	
JBT0473	Ac-FQSKGNVFVHGYFERLRAKL-NH2 (SEQ ID NO: 28)	0.25	47	45	31	
JBT0474	Ac-FQSKGNVFVKGYFERLRAKL-NH2 (SEQ ID NO: 29)	0.29	75	68	50	
JBT0475	Ac-FQSKGNVFVEGYFERLRAKL-NH2 (SEQ ID NO: 30)	0.25	60	50	37	
JBT0476	Ac-FQSKGNVFVDGYFDRLRAKL-NH2 (SEQ ID NO: 31)	0.22	54	49	38	
JBT0477	Ac-FQSKGNVFVDGYFERLRAKL-NH2 (SEQ ID NO: 32)	0.23	72	68	51	
JBT0478	Ac-FQSKDNVFVTGYFERLRAKL-NH2 (SEQ ID NO: 33)	0.76	51	39	21	
JBT0479	Ac-FQSKDNVFVNGYFERLRAKL-NH2 (SEQ ID NO: 34)	1.10	58	40	21	
JBT0480	Ac-FQSKDNVFVHGYFERLRAKL-NH2 (SEQ ID NO: 35)	1.11	65	42	24	
JBT0481	Ac-FQSKDNVFVKGYFERLRAKL-NH2 (SEQ ID NO: 36)	0.77	53	41	23	
JBT0482	Ac-FQSKDNVFVEGYFERLRAKL-NH2 (SEQ ID NO: 37)	0.53	86	69	43	
JBT0483	Ac-FQSKDNVFVDGYFERLRAKL-NH2 (SEQ ID NO: 38)	0.53	84	68	41	
JBT0484	Ac-FQSKDNVFVDGYFDRLRAKL-NH2 (SEQ ID NO: 976)	0.79	73	56	29	
JBT0485	Ac-FQSKNNVFVTGYFERLRAKL-NH2 (SEQ ID NO: 39)	0.75	86	63	38	
JBT0486	Ac-FQSKNNVFVNGYFERLRAKL-NH2 (SEQ ID NO: 40)			44	26	
JBT0487	Ac-FQSKNNVFVHGYFERLRAKL-NH2 (SEQ ID NO: 41)			58	36	
JBT0488	Ac-FQSKNNVFVKGYFERLRAKL-NH2 (SEQ ID NO: 42)	0.56	78	64	40	
JBT0489	Ac-FQSKNNVFVEGYFERLRAKL-NH2 (SEQ ID NO: 43)	0.42	78	68	48	
JBT0490	Ac-FQSKQNVFVTGYFERLRAKL-NH2 (SEQ ID NO: 44)			53	25	
JBT0491	Ac-FQSKQNVFVNGYFERLRAKL-NH2 (SEQ ID NO: 197)			53	29	
JBT0492	Ac-FQSKQNVFVHGYFERLRAKL-NH2 (SEQ ID NO: 198)			45	24	

도면22e

JBT0493	Ac-FQSKQNVFVKGYFERLRAKL-NH2 (SEQ ID NO: 199)			45	21
JBT0494	Ac-FQSKQNVFVDGYFERLRAKL-NH2 (SEQ ID NO: 45)			60	36
JBT0495	Ac-FQSKQNVFVEGYFERLRAKL-NH2 (SEQ ID NO: 200)			59	36
JBT0497	Ac-NmetPhe-QSKGNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 201)	0.47		40	24
JBT0498	Ac-FQ-NmetSer-KGNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 675			3	1
JBT0499	Ac-FQS-NmetLys-GNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 202)	0.83	75	56	30
JBT0500	Ac-FQSK-NmetGly-NVFVFGYFERLRAKL-NH2 (SEQ ID NO: 46)	0.13	71	70	60
JBT0501	Ac-FQSKGN-NmetV-FVFGYFERLRAKL-NH2 (SEQ ID NO: 417)			16	6
JBT0502	Ac-FQSKGNV-NmetPhe-VFGYFERLRAKL-NH2 (SEQ ID NO: 751)			0	0
JBT0503	Ac-FQSKGNVF-NmetV-FGYFERLRAKL-NH2 (SEQ ID NO: 676)			0	0
JBT0504	Ac-FQSKGNVFV-NmetPhe-GYFERLRAKL-NH2 (SEQ ID NO: 418)			7	2
JBT0505	Ac-FQSKGNVFVF-NmetGly-YFERLRAKL-NH2 (SEQ ID NO: 269)			21	7
JBT0506	Ac-FQSKGNVFVFG-NmetTyr-FERLRAKL-NH2 (SEQ ID NO: 714)			0	0
JBT0507	Ac-FQSKGNVFVFGY-NmetPhe-ERLRAKL-NH2 (SEQ ID NO: 677)			0	0
JBT0508	Ac-FQSKGNVFVFGYF-NmetGlu-RLRAKL-NH2 (SEQ ID NO: 678)			0	0
JBT0509	Ac-FQSKGNVFVFGYFE-Nmr-LRAKL-NH2 (SEQ ID NO: 752)			0	0
JBT0510	Ac-FQSKGNVFVFGYFER-NmetLeu-RAKL-NH2 (SEQ ID NO: 753)			0	0
JBT0511	Ac-FQSKGNVFVFGYFERL-Nmr-AKL-NH2 (SEQ ID NO: 754)			0	0
JBT0512	Ac-FQSKGNVFVFGYFERLR-NmetAla-KL-NH2 (SEQ ID NO: 679)			0	0
JBT0513	Ac-FQSKGNVFVFGYFERLRA-NmetLys-L-NH2 (SEQ ID NO: 755)			0	0
JBT0514	Ac-FQSKGNVFVFGYFERLRAK-NmetLeu-NH2 (SEQ ID NO: 419)			1	0
JBT0515	Ac-bHomoPhe-QSKGNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 420)			22	11
JBT0516	Ac-F-bHomoGln-SKGNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 680)			7	4
JBT0517	Ac-FQ-bHomoSer-KGNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 421)			7	2
JBT0518	Ac-FQS-bHomoLys-GNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 422)			9	2
JBT0519	Ac-FQSK-bAla-NVFVFGYFERLRAKL-NH2 (SEQ ID NO: 270)			20	15
JBT0520	Ac-FQSKG-bGln-VFVFGYFERLRAKL-NH2 (SEQ ID NO: 271)			24	9
JBT0521	Ac-FQSKGN-bLeu-FVFGYFERLRAKL-NH2 (SEQ ID NO: 756)			3	3
JBT0522	Ac-FQSKGNV-bHomoPhe-VFGYFERLRAKL-NH2 (SEQ ID NO: 681)			5	3

도면22f

JBT0523	Ac-FQSKGNVF-bLeu-FGYFERLRAKL-NH2 (SEQ ID NO: 757)			1	2
JBT0524	Ac-FQSKGNVFV-bHomoPhe-GYFERLRAKL-NH2 (SEQ ID NO: 682)			0	4
JBT0525	Ac-FQSKGNVFVF-bAla-YFERLRAKL-NH2 (SEQ ID NO: 758)			0	3
JBT0526	Ac-FQSKGNVFVFG-bHomoTyr-FERLRAKL-NH2 (SEQ ID NO: 759)			0	0
JBT0527	Ac-FQSKGNVFVFGY-bHomoPhe-ERLRAKL-NH2 (SEQ ID NO: 683)			9	2
JBT0528	Ac-FQSKGNVFVFGYF-bE-RLRAKL-NH2 (SEQ ID NO: 272)			25	20
JBT0529	Ac-FQSKGNVFVFGYFE-bHomoArg-LRAKL-NH2 (SEQ ID NO: 760)			0	1
JBT0530	Ac-FQSKGNVFVFGYFER-Btl-RAKL-NH2 (SEQ ID NO: 684)			3	0
JBT0532	Ac-FQSKGNVFVFGYFERLR-bAla-KL-NH2 (SEQ ID NO: 423)			14	7
JBT0533	Ac-FQSKGNVFVFGYFERLRA-bHomoK-L-NH2 (SEQ ID NO: 424)			17	4
JBT0534	Ac-FQSKGNVFVFGYFERLRAK-Btl-NH2 (SEQ ID NO: 204)	0.47	48	39	28
JBT0535	Ac-FQSKGNVFVFGYFE-Cit-LRAKL-NH2 (SEQ ID NO: 685)			13	5
JBT0536	Ac-FQSKGNVFVFGYFERL-Cit-AKL-NH2 (SEQ ID NO: 273)			52	32
JBT0537	Ac-FQSKGNVFVFGYFE-Nle-LRAKL-NH2 (SEQ ID NO: 761)			0	0
JBT0538	Ac-FQSKGNVFVFGYFERL-Nle-AKL-NH2 (SEQ ID NO: 425)			16	20
JBT0564	Ac-FQSKKNVFVFGYFKRLRAKL-NH2 (SEQ ID NO: 205)	4.12	54	19	6
JBT0578	Ac-FQSKKNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 441)			1	0
JBT0613	Ac-FQSKGNVFVFGYFERLRAKL-OH (SEQ ID NO: 283)			21	8
JBT0614	NH2-FQSKGNVFVFGYFERLRAKL-OH (SEQ ID NO: 720)			3	0
JBT0615	NH2-FQSKGNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 284)			14	5
JBT0616	NH2-GSFQSKKNVFVDGYFERLRAKL-OH (SEQ ID NO: 285)	0.85	30	25	
JBT0636	Ac-FQSK-Nmg-NVFVDGYFARLRAKL-NH2 (SEQ ID NO: 47)	0.10	90	86	76
JBT0651	Ac-FQSKGNVHVKGYFERLRAKL-NH2 (SEQ ID NO: 48)	0.59	50	40	26
JBT0652	Ac-FQSKGNVHVDGYFERLRAKL-NH2 (SEQ ID NO: 49)	0.34	52	48	34
JBT0653	Ac-FQSPGNVHVKGYFERLRAKL-NH2 (SEQ ID NO: 50)	0.44	57	47	33
JBT0654	Ac-FQSPGNVHVDGYFERLRAKL-NH2 (SEQ ID NO: 51)	0.37	60	50	36
JBT0655	Ac-FQSKGNIFVFGYFERLRAKL-NH2 (SEQ ID NO: 52)	1.32	65	41	22
JBT0656	Ac-FQSKGNLFVFGYFERLRAKL-NH2 (SEQ ID NO: 286)			21	10
JBT0657	Ac-FQSKGNVFIFGYFERLRAKL-NH2 (SEQ ID NO: 287)			24	10

도면22g

JBT0658	Ac-FQSKGNVFLFGYFERLRAKL-NH2 (SEQ ID NO: 694)			6	3
JBT0663	Ac-FQSKaNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 53)	0.29	86	81	60
JBT0668	Ac-FQSKaNVFVTGYFARLRAKL-NH2 (SEQ ID NO: 54)	0.52	84	70	43
JBT0681	Ac-FQSK-Nmg-AVFVFGYFARLRAKL-NH2 (SEQ ID NO: 206)			52	52
JBT0683	Ac-FQSK-Nmg-AVFVDGYFARLRAKL-NH2 (SEQ ID NO: 55)	0.13	91	86	74
JBT0696	Ac-FQSKKAVFVFGYFERLRAKL-NH2 (SEQ ID NO: 288)	0.71	56	48	26
JBT0697	Ac-FQSKGNVFVDGYFERL-Dap-AKL-NH2 (SEQ ID NO: 56)	0.50	89	73	52
JBT0699	Ac-FQSKGNVFVDGYFERL-Orn-AKL-NH2 (SEQ ID NO: 57)	0.41	89	76	57
JBT0700	Ac-FQSKGNVFVDGYFERL-Nva-AKL-NH2 (SEQ ID NO: 58)	0.19	83	77	64
JBT0704	Ac-FQSKKNVFVFGYFARLRAKL-NH2 (SEQ ID NO: 289)			19	8
JBT0708	Ac-FQSKaNVFVAGYFERLRAKL-NH2 (SEQ ID NO: 59)	0.25	89	77	59
JBT0714	Ac-FQSKaAVFVDGYFARLRAKL-NH2 (SEQ ID NO: 60)	0.18	81	75	59
JBT0717	Ac-FQSK-Nmg-NVFVDGYFERLRAKL-NH2 (SEQ ID NO: 61)	0.06	91	87	84
JBT0720	Ac-FQSK-Nmg-NVFVTGYFARLRAKL-NH2 (SEQ ID NO: 62)	0.22	85	77	62
JBT0732	Ac-FQSKGNVFVDGYFERL-Hct-AKL-NH2 (SEQ ID NO: 63)	0.18	83	75	62
JBT0733	Ac-FQSKGNVFVDGYFERL-Har-AKL-NH2 (SEQ ID NO: 64)	0.18	81	75	62
JBT0739	Ac-FQSKGNVFVDGYFERL-Opa-AKL-NH2 (SEQ ID NO: 65)	0.28	82	74	51
JBT0740	Ac-FQSKGNVFVDGYFERL-Aib-AKL-NH2 (SEQ ID NO: 66)	0.09	87	84	78
JBT0754	Ac-FQSK-Nmg-AVFVTGYFARLRAKL-NH2 (SEQ ID NO: 67)	0.24	80	74	57
JBT0757	Ac-FQsKKNVFVTGYFERLRAKL-NH2 (SEQ ID NO: 699)			3	1
JBT0759	Ac-FQSKKNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 207)	0.65	60	53	29
JBT0765	Ac-FQSKGNVFVDGYFERL-Eew-AKL-NH2 (SEQ ID NO: 68)	0.16	95	87	73
JBT0775	Ac-FQSKGNVFVTGYFDRLRAKL-NH2 (SEQ ID NO: 69)	0.77	77	57	34
JBT0778	Ac-FQSKGNVFVKGYFDRLRAKL-NH2 (SEQ ID NO: 209)	1.48	77	46	23
JBT0779	Ac-FQSKGNVFVEGYFDRLRAKL-NH2 (SEQ ID NO: 210)	0.77	82	59	37
JBT0780	Ac-FQSK-Nmg-NVFVFGYFARLRAKL-NH2 (SEQ ID NO: 70)			45	54
JBT0781	Ac-FQSKGNVFVDGYFKRLRAKL-NH2 (SEQ ID NO: 211)	1.25	81	48	25
JBT0789	Ac-FQSK-Nmg-NVFVDGYFERL-Nle-AKL-NH2 (SEQ ID NO: 71)	0.06	86	84	77
JBT0806	Ac-FQSK-Nmg-NVFVAGYFARLRAKL-NH2 (SEQ ID NO: 74)	0.13	79	75	65

도면22h

JBT0837	Ac-FQSK-Nmg-NVFVTGYFERL-Nle-AKL-NH2 (SEQ ID NO: 213)	0.20	76	70	54	
JBT0844	Ac-FQSKaNVFVDGYFERLRAKL-NH2 (SEQ ID NO: 300)	0.32	84	72	51	
JBT0850	Ac-FQSKaAVFVAGYFARLRAKL-NH2 (SEQ ID NO: 302)	0.19	75	70	55	
JBT0854	Ac-FQSKaAVFVAGYFARL-Nle-AKL-NH2 (SEQ ID NO: 490)	0.29	49	47	36	
JBT0870	Ac-FQSKaAVFVTGYFARLRAKL-NH2 (SEQ ID NO: 214)	0.31	84	80	57	
JBT0886	Ac-FQSKaNVFVDGYFARLRAKL-NH2 (SEQ ID NO: 215)	0.36	83	71	48	
JBT0894	Ac-FQSKGNVFVDGYFERLHAKL-NH2 (SEQ ID NO: 76)	0.39	95	80	56	
JBT0919	Ac-FQSKaNVFVTGYFERLRAKL-NH2 (SEQ ID NO: 79)	0.36	86	74	51	
JBT0931	Ac-FQSKGNVFVDGYFERL-Eag-AKL-NH2 (SEQ ID NO: 879)	0.42	91	75	52	
JBT0946	Ac-FQSKGNVFVDGYFERL-Dab-AKL-NH2 (SEQ ID NO: 85)	0.27	85	74	56	
JBT0950	Ac-FQSKaNVFVFGYFARLRAKL-NH2 (SEQ ID NO: 217)			47	31	
JBT0973	Ac-FQSKGNVFVDGYFERL-Cha-AKL-NH2 (SEQ ID NO: 92)	0.16	70	65	58	
JBT1006	Ac-FQSKGNVFVDGYFERL-Hle-AKL-NH2 (SEQ ID NO: 96)	0.17	77	71	61	
JBT1035	Ac-FQSK-Nmg-AVFVAGYFARL-Nle-AKL-NH2 (SEQ ID NO: 218)				53	
JBT1037	Ac-FQSKGNVFVDGYFERL-Nle-AKL-NH2 (SEQ ID NO: 104)	0.22	74	68	55	
JBT1043	Ac-FQSKaNVFVDGYFERL-Nle-AKL-NH2 (SEQ ID NO: 106)	0.30	80	70	51	
JBT1082	Ac-FQSKaAVFVFGYFARLRAKL-NH2 (SEQ ID NO: 565)	0.20	47	45	38	
JBT1084	Ac-FQSK-Nmg-AVFVAGYFARLRAKL-NH2 (SEQ ID NO: 109)	0.21	66	62	51	
JBT1106	Ac-FQSKGNVFVDGYTWRLRAKL-NH2 (SEQ ID NO: 220)	0.28	94	79	65	
JBT1122	Ac-FQSK-Nmg-NVFVDGYFARL-Nle-AKL-NH2 (SEQ ID NO: 113)			67	65	
JBT1131	비오틴-Tds-FQSKGNVFVDGYFERLRAKL-NH2 (SEQ ID NO: 977)	0.20	94	86	69	
JBT1133	Ac-FQSKkAVFVDGYFARLRAKL-NH2 (SEQ ID NO: 115)	0.22	80	72	57	
JBT1134	Ac-FQSKGAVFVDGYFARLRAKL-NH2 (SEQ ID NO: 116)	0.24	72	66	54	
JBT1135	Ac-FQSKDAVFVDGYFARLRAKL-NH2 (SEQ ID NO: 221)	0.39	68	61	38	
JBT1136	Ac-FQSKdAVFVDGYFARLRAKL-NH2 (SEQ ID NO: 117)	0.17	77	72	58	
JBT1137	Ac-FQSKkAVFVAGYFARLRAKL-NH2 (SEQ ID NO: 118)	0.32	71	58	40	
JBT1138	Ac-FQSKGAVFVAGYFARLRAKL-NH2 (SEQ ID NO: 222)	0.25	50	47	38	
JBT1139	Ac-FQSKDAVFVAGYFARLRAKL-NH2 (SEQ ID NO: 223)			48	26	
JBT1140	Ac-FQSKdAVFVAGYFARLRAKL-NH2 (SEQ ID NO: 119)	0.21	62	58	47	

도면22i

JBT1141	Ac-fQSKkAVFVKGYFARLRAKL-NH2 (SEQ ID NO: 120)	0.37	62	54	38	
JBT1142	Ac-fQSKGAVFVKGYFARLRAKL-NH2 (SEQ ID NO: 224)	0.39	49	47	32	
JBT1143	Ac-fQSKDAVFVKGYFARLRAKL-NH2 (SEQ ID NO: 225)	0.84	54	40	19	
JBT1144	Ac-fQSKdAVFVKGYFARLRAKL-NH2 (SEQ ID NO: 121)	0.32	63	57	38	
JBT1145	Ac-fQSKkAVFVTGYFARLRAKL-NH2 (SEQ ID NO: 122)	0.39	66	60	38	
JBT1146	Ac-fQSKGAVFVTGYFARLRAKL-NH2 (SEQ ID NO: 226)			41	28	
JBT1147	Ac-fQSKDAVFVTGYFARLRAKL-NH2 (SEQ ID NO: 227)			48	24	
JBT1148	Ac-fQSKdAVFVTGYFARLRAKL-NH2 (SEQ ID NO: 123)	0.33	68	61	44	
JBT1149	Ac-fQSKGNVFvFGYFERLRAKL-NH2 (SEQ ID NO: 936)			0	0	
JBT1151	Ac-fQSKKNVFVFGYFERLRAKD-NH2 (SEQ ID NO: 937)			0	0	
JBT1152	Ac-fQSKKNVFFGYFERLRAKL-NH2 (SEQ ID NO: 735)			0	0	
JBT1153	Ac-fQSKKNVFVFGYFERLGAKL-NH2 (SEQ ID NO: 705)	5.25	51	12	0	
JBT1155	Ac-fQSK-Nmg-NVFVTGYFERLRAKL-NH2 (SEQ ID NO: 125)	0.21	87	77	61	
JBT1156	Ac-fQSKaNVFVDGYFARL-Nle-AKL-NH2 (SEQ ID NO: 126)			67	44	
JBT1157	Ac-fQSKaNVFVAGYFARLRAKL-NH2 (SEQ ID NO: 127)	0.27	77	69	51	
JBT1158	Ac-fQSKGNVFVFGYFERLRAKL-N-메틸(SEQ ID NO: 228)			73	45	
JBT1159	Ac-fQSKGNVFVFGYFERLRAKL-N-에틸(SEQ ID NO: 128)			71	41	
JBT1160	Ac-fQSKGNVFVFGYFERLRAKL-N-프로필(SEQ ID NO: 978)			76	54	
JBT1161	Ac-fQSK-Aib-NVFVFGYFERLRAKL-NH2 (SEQ ID NO: 338)	0.03	94	71	46	
JBT1162	Ac-fQSKpNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 129)	0.05	95	92	90	
JBT1396	Ac-fQSK-Nmg-NVFVAGYFERLRAKL-NH2 (SEQ ID NO: 161)	0.02	93	93	87	
JBT1584	Ac-fQSK-Nmg-NVFVDGYFERL-Aib-AKL-NH2 (SEQ ID NO: 164)	0.04	90	90	92	
JBT1585	Ac-fQSK-Nmg-NVFVTGYFERL-Aib-AKL-NH2 (SEQ ID NO: 165)	0.05	90	88	89	
JBT1587	Ac-fQSKGNVFVDGYFERL-Aib-AKLC-NH2 (SEQ ID NO: 167)			53	83	
JBT1590	Ac-fQSKGNVFV[CGYFERL-Aib-AKLC]-NH2 (SEQ ID NO: 401)	0.67	81	72	21	
JBT1591	Ac-fQSKGNVFVDGYF[CRL-Aib-AKLC]-NH2 (SEQ ID NO: 168)	1.55	86	54	41	
JBT1592	Ac-[CfQSKGNVFVDGYFERLC]AKL-NH2 (SEQ ID NO: 402)			43	24	
JBT1593	Ac-fQSK[CNVFVDGYFERLC]AKL-NH2 (SEQ ID NO: 670)			9	18	
JBT1594	Ac-fQSKGNVFV[CGYFERLC]AKL-NH2 (SEQ ID NO: 671)				5	

도면22j

JBT1595	Ac-[CFQSKGNVFVC]GYFERL-Aib-AKL-NH2 (SEQ ID NO: 403)				32	14
JBT1596	Ac-[CFQSKGC]VFVEGYFERL-Aib-AKL-NH2 (SEQ ID NO: 404)				52	24
JBT1597	Ac-DGYFERLRAKL-NH2 (SEQ ID NO: 960)				0	0
JBT1598	Ac-FQSKKNV-NH2 (SEQ ID NO: 961)				0	0
JBT1843	Ac-FQSKGNIFVDGYFERLHAKL-NH2 (SEQ ID NO: 169)	0.81	94	70	42	
JBT1844	Ac-FQSKNNVFVDGYFKRLRAKL-NH2 (SEQ ID NO: 170)	0.73	91	70	42	
JBT1845	Ac-FQSYKHVFVDGYFERLRAKL-NH2 (SEQ ID NO: 249)	1.24	94	61	33	
JBT1846	Ac-FQSKGIVFVDGYFKRLRAKL-NH2 (SEQ ID NO: 250)	0.87	91	65	38	
JBT1847	Ac-YQTKGNVFVDGYFERLRAKL-NH2 (SEQ ID NO: 171)	0.12	87	82	73	
JBT1852	PEG(1kD)-FQSKGNVFVDGYFERL-Aib-AKL-NH2 (SEQ ID NO: 174)	0.11	93	88	76	
JBT1853	PEG(40kD)-FQSKGNVFVDGYFERL-Aib-AKL-NH2 (SEQ ID NO: 175)	0.17	99	91	75	
JBT1854	Ac-FQSKGNVFVDGYFERL-Aib-AKLC(PEG1kD)-NH2 (SEQ ID NO: 176)	0.07	93	90	83	
JBT1855	Ac-FQSKGNVFVDGYFERL-Aib-AKLC(PEG40kD)-NH2 (SEQ ID NO: 252)	0.10	97	91	79	

도면23a

JBT0120 클래스			FXa 억제 분석			
펩티드	서열	EC50 (μM)	최대 억제 (%)	2.5μM에서 % 억제	0.63μM에서 % 억제	
JBT0120	Ac-SGASRYKWFI[CGMRDMKGTMSC]VWVKFRYDTS-NH2 (SEQ ID NO: 1047)	1.21	75	47	26	
JBT0124	비오틴-Tids-SGASRYKWFI[CGMRDMKGTMSC]VWVKFRYDTS-NH2 (SEQ ID NO: 1290)	1.59		41		
JBT0247	Ac-SGASRYKWFCGMRDMKGTMSCVWVKFRYDTS-NH2 (SEQ ID NO: 1213)	0.79		42		
JBT0248	Ac-KKSGASRYKWFI[CGMRDMKGTMSC]VWVKFRYDTSKK-NH2 (SEQ ID NO: 1001)	0.82		53		
JBT0249	Ac-KKSGASRYKWFCGMRDMKGTMSKK-NH2 (SEQ ID NO: 1214)			0		
JBT0250	Ac-KKSRYKWFI[CGMRDMKGTMSC]VWKK-NH2 (SEQ ID NO: 1201)			11		
JBT0251	Ac-KKKWFI[CGMRDMKGTMSC]VWVKFKK-NH2 (SEQ ID NO: 1202)			17		
JBT0252	Ac-KKI[CGMRDMKGTMSC]VWVKFRYDKK-NH2 (SEQ ID NO: 1215)			13		
JBT0253	Ac-KKMRDMKGTMSCVWVKFRYDTSKK-NH2 (SEQ ID NO: 1216)			0		
JBT0319	Ac-SGASRYKWFI[CGMRDMKGTMSC]VWVKFRY-NH2 (SEQ ID NO: 1002)	0.30		72		
JBT0320	Ac-SGASRYKWFI[CGMRDMKGTMSC]VWVK-NH2 (SEQ ID NO: 1103)			9		
JBT0321	Ac-SGASRYKWFI[CGMRDMKGTMSC]V-NH2 (SEQ ID NO: 1217)			0		
JBT0322	Ac-SGASRYKWFCGMRDMKGTM-NH2 (SEQ ID NO: 1218)			0		
JBT0322	Ac-SGASRYKWFCGMRDMKGTM-NH2 (SEQ ID NO: 1218)			0		
JBT0323	Ac-SRYKWFI[CGMRDMKGTMSC]VWVKFRYDTS-NH2 (SEQ ID NO: 1076)	0.72		42		
JBT0324	Ac-KWFI[CGMRDMKGTMSC]VWVKFRYDTS-NH2 (SEQ ID NO: 1155)			0		
JBT0325	Ac-I[CGMRDMKGTMSC]VWVKFRYDTS-NH2 (SEQ ID NO: 1219)			0		
JBT0326	Ac-RDMKGTMSCVWVKFRYDTS-NH2 (SEQ ID NO: 1220)			0		
JBT0327	Ac-SGASRYKWFCGMRDMKGTMS-NH2 (SEQ ID NO: 1222)			0		
JBT0328	Ac-SRYKWFI[CGMRDMKGTMSC]VW-NH2 (SEQ ID NO: 1223)			0		

도면23b

JBT0329	Ac-KWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1156)			2		
JBT0330	Ac-[CGMRDMKGTMSC]VWVKFRYD-NH2 (SEQ ID NO: 1224)			0		
JBT0331	Ac-MRDMKGTMSCVWVKFRYDTS-NH2 (SEQ ID NO: 1225)			0		
JBT0332	Ac-SRYKWF-CGMRDMKGTMSCVW-NH2 (SEQ ID NO: 1206)			1		
JBT0333	Ac-KWF-CGMRDMKGTMSCVWVKF-NH2 (SEQ ID NO: 1207)			4		
JBT0334	Ac-CGMRDMKGTMSCVWVKFRYD-NH2 (SEQ ID NO: 1227)			0		
JBT0409	Ac-SGASRYKWF'SG-NIe-RD-NIe-KGT-NIe-SSVWVKFRYDTS-NH2 (SEQ ID NO: 1204)			0		
JBT0410	Ac-SGASRYKWF'SG-NIe-RD-NIe-KGT-NIe-SSVWVKFRYDTS-NH2 (SEQ ID NO: 1208)			0		
JBT0411	Ac-SGASRYKWF[CG-NIe-RD-NIe-KGT-NIe-SC]VWVKFRYDTS-NH2 (SEQ ID NO: 1104)			11		
JBT0412	Ac-KWF[CG-NIe-RD-NIe-KGT-NIe-SC]VWVKF-NH2 (SEQ ID NO: 1209)			7		
JBT0413	Ac-KWFSGMRDMKGTMSSVWVKF-NH2 (SEQ ID NO: 1228)			0		
JBT0414	Ac-KWFSG-NIe-RD-NIe-KGT-NIe-SSVWVKF-NH2 (SEQ ID NO: 1205)			4		
JBT0415	Ac-SRYKWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1003)	0.52	73	59	39	
JBT0416	Ac-SRYKWF[CG-NIe-RD-NIe-KGT-NIe-SC]VWVKF-NH2 (SEQ ID NO: 1077)			52		
JBT0417	Ac-SRYKWF'SGMRDMKGTMSSVWVKF-NH2 (SEQ ID NO: 1229)			0		
JBT0418	Ac-SRYKWF'SG-NIe-RD-NIe-KGT-NIe-SSVWVKF-NH2 (SEQ ID NO: 1210)			4		
JBT0419	Ac-SGGRKIHKHF'LRSNGKPSRALSSMHFWRWS'TS-NH2 (SEQ ID NO: 1293)			6		
JBT0435	Ac-RKRDVSGKM[CW'SGFGSKWFRC]ADMMTYYSVT-NH2 (SEQ ID NO: 1211)			0		
JBT0436	Ac-RWSGKS'TYS[CDAMVRRMGMKC]FSFGWTDVYK-NH2 (SEQ ID NO: 1212)			0		
JBT0437	Ac-ARYKWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1048)			71		
JBT0438	Ac-SAYKWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1078)			54		
JBT0439	Ac-SRAKWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1105)			35		
JBT0440	Ac-SRYAWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1106)			37		
JBT0441	Ac-SRYKAF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1230)			0		
JBT0442	Ac-SRYKWA[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1231)			8		
JBT0443	Ac-SRYKWF-AGMRDMKGTMSCVWVKF-NH2 (SEQ ID NO: 1157)			0		
JBT0444	Ac-SRYKWF[CAMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1004)	0.24	90	80	62	

도면23c

JBT0445	Ac-SRYKWF[CGARDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1107)			18		
JBT0446	Ac-SRYKWF[CGMADMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1079)			50		
JBT0447	Ac-SRYKWF[CGMRAMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1158)			11		
JBT0448	Ac-SRYKWF[CGMRDAKGTMSC]VWVKF-NH2 (SEQ ID NO: 1108)			44		
JBT0449	Ac-SRYKWF[CGMRDMAGTMSC]VWVKF-NH2 (SEQ ID NO: 1080)		1.26	82	46	30
JBT0450	Ac-SRYKWF[CGMRDMKATMSC]VWVKF-NH2 (SEQ ID NO: 1159)				33	
JBT0451	Ac-SRYKWF[CGMRDMKGAMSC]VWVKF-NH2 (SEQ ID NO: 1081)				54	
JBT0452	Ac-SRYKWF[CGMRDMKGTASC]VWVKF-NH2 (SEQ ID NO: 1109)				39	
JBT0453	Ac-SRYKWF[CGMRDMKGTMAC]VWVKF-NH2 (SEQ ID NO: 1110)		1.18	62	38	23
JBT0454	Ac-SRYKWF[CGMRDMKGTMSAVWVKF-NH2 (SEQ ID NO: 1160)				0	
JBT0455	Ac-SRYKWF[CGMRDMKGTMSC]AWVKF-NH2 (SEQ ID NO: 1049)		1.02	65	40	26
JBT0456	Ac-SRYKWF[CGMRDMKGTMSCVAVKF-NH2 (SEQ ID NO: 1232)				3	
JBT0457	Ac-SRYKWF[CGMRDMKGTMSC]VWAKF-NH2 (SEQ ID NO: 1161)				16	
JBT0458	Ac-SRYKWF[CGMRDMKGTMSC]VWVAF-NH2 (SEQ ID NO: 1082)		1.34	66	39	24
JBT0459	Ac-SRYKWF[CGMRDMKGTMSC]VWVKA-NH2 (SEQ ID NO: 1083)				47	
JBT0460	Ac-RYKWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1050)				57	
JBT0461	Ac-YKWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1111)				32	
JBT0462	Ac-SRYKWF-GM[CRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1233)				0	
JBT0463	Ac-SRYKWF-GMRD[CMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1234)				0	
JBT0464	Ac-SRYKWF-GMRDMK[CGTMSC]VWVKF-NH2 (SEQ ID NO: 1235)				0	
JBT0465	Ac-SRYKWF[CGMRDMKGTC]MSVWVKF-NH2 (SEQ ID NO: 1236)				0	
JBT0466	Ac-SRYKWF[CGMRDMKC]GTMSVWVKF-NH2 (SEQ ID NO: 1237)				0	
JBT0467	Ac-SRYKWF[CGMRDC]MKGTMSVWVKF-NH2 (SEQ ID NO: 1238)				0	
JBT0468	Ac-SRYKWF[CMRDMKGTMC]SVWVKF-NH2 (SEQ ID NO: 1239)				2	
JBT0469	Ac-SRYKWF-GM[CRDMKGTC]MSVWVKF-NH2 (SEQ ID NO: 1240)				5	
JBT0470	Ac-SRYKWF-GMR[CDMKGC]TMSVWVKF-NH2 (SEQ ID NO: 1162)				0	
JBT0617	Ac-SRYKWF[homoC-GMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1112)		1.91	35	18	8
JBT0618	Ac-SRYKWF[CGMRDMKGTMS-homoC]VWVKF-NH2 (SEQ ID NO: 1163)		3.44	18	5	1
JBT0619	Ac-SRYKWF[homoC-GMRDMKGTMS-homoC]VWVKF-NH2 (SEQ ID NO: 1241)				0	0

도면23d

JBT0620	Ac-SRYKWF[Dap-GMRDMKGTMS-D]VWVKF-NH2 (SEQ ID NO: 1242)			0	0
JBT0623	Ac-SRYKWF[KGMRDMKGTMSD]VWVKF-NH2 (SEQ ID NO: 1243)			3	2
JBT0625	Ac-SRYKWF[CMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1244)			0	0
JBT0626	Ac-SRYKWF[CGMRDKGTMSC]VWVKF-NH2 (SEQ ID NO: 1164)			3	0
JBT0627	Ac-SRYKWF[CGMRDMGTMSC]VWVKF-NH2 (SEQ ID NO: 1165)			2	0
JBT0628	Ac-SRYKWF[CGMRDMKGMSC]VWVKF-NH2 (SEQ ID NO: 1166)			0	0
JBT0629	Ac-SRYKWF[cGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1167)			0	0
JBT0631	Ac-SRYKWF[CGmRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1113)		1.89	62	33	15
JBT0632	Ac-SRYKWF[CGMrDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1245)				0	0
JBT0633	Ac-SRYKWF[CGMRdMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1168)				0	0
JBT0634	Ac-SRYKWF[CGMRDmKGTMSC]VWVKF-NH2 (SEQ ID NO: 1051)		0.69	63	47	26
JBT0635	Ac-SRYKWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1114)		5.14	48	13	2
JBT0637	Ac-SRYKWF[CGMRDMKGtMSC]VWVKF-NH2 (SEQ ID NO: 1169)				0	0
JBT0638	Ac-SRYKWF[CGMRDMKGTmSC]VWVKF-NH2 (SEQ ID NO: 1246)				0	0
JBT0639	Ac-SRYKWF[CGMRDMKGTMsC]VWVKF-NH2 (SEQ ID NO: 1170)				2	0
JBT0640	Ac-SRYKWF[CGMRDMKGTMSc]VWVKF-NH2 (SEQ ID NO: 1171)				3	0
JBT0641	Ac-SRYKWF[CPMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1247)				4	2
JBT0642	Ac-SRYKWF[CGPRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1248)				2	1
JBT0643	Ac-SRYKWF[CGMPDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1006)				45	26
JBT0644	Ac-SRYKWF[CGMRPMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1172)		4.55	35	12	3
JBT0645	Ac-SRYKWF[CGMRDPKGTMSC]VWVKF-NH2 (SEQ ID NO: 1084)		3.79	62	27	12
JBT0646	Ac-SRYKWF[CGMRDMPGTMSC]VWVKF-NH2 (SEQ ID NO: 1173)				4	1
JBT0647	Ac-SRYKWF[CGMRDMKPTMSC]VWVKF-NH2 (SEQ ID NO: 1249)				4	2
JBT0648	Ac-SRYKWF[CGMRDMKGPMSC]VWVKF-NH2 (SEQ ID NO: 1174)				4	0
JBT0649	Ac-SRYKWF[CGMRDMKGTPSC]VWVKF-NH2 (SEQ ID NO: 1175)				5	2
JBT0650	Ac-SRYKWF[CGMRDMKGTMPC]VWVKF-NH2 (SEQ ID NO: 1250)				0	0
JBT0659	비오틴넬-Ttds-SRYKWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1291)				63	38
JBT0787	Ac-SRYKWF[CG-SeMet-RD-SeMet-KGT-SeMet-SC]VWVKF-NH2 (SEQ ID NO: 1292)				68	56

도면23e

JBT1416	Ac-DRYKWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1007)	0.58	93	68	46
JBT1417	Ac-SDYKWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1116)			34	13
JBT1418	Ac-SRDKWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1176)			15	5
JBT1419	Ac-SRYDWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO:1117)			31	10
JBT1420	Ac-SRYKDF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1251)			0	0
JBT1421	Ac-SRYKWD[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1252)			2	2
JBT1422	Ac-SRYKWF[CDMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1253)			0	0
JBT1423	Ac-SRYKWF[CGDRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1177)			1	0
JBT1424	Ac-SRYKWF[CGMDDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1254)			4	1
JBT1425	Ac-SRYKWF[CGMRDDKGTMSC]VWVKF-NH2 (SEQ ID NO: 1085)			53	28
JBT1426	Ac-SRYKWF[CGMRDMDGTMSC]VWVKF-NH2 (SEQ ID NO: 1008)	0.19	96	81	66
JBT1427	Ac-SRYKWF[CGMRDMKDTMSC]VWVKF-NH2 (SEQ ID NO: 1052)			57	31
JBT1428	Ac-SRYKWF[CGMRDMKGDMSC]VWVKF-NH2 (SEQ ID NO: 1118)			28	6
JBT1429	Ac-SRYKWF[CGMRDMKGTDSC]VWVKF-NH2 (SEQ ID NO: 1086)			49	21
JBT1430	Ac-SRYKWF[CGMRDMKGTMDC]VWVKF-NH2 (SEQ ID NO: 1119)			37	15
JBT1431	Ac-SRYKWF[CGMRDMKGTMSC]DWVKF-NH2 (SEQ ID NO: 1255)			0	0
JBT1432	Ac-SRYKWF[CGMRDMKGTMSC]VDVKF-NH2 (SEQ ID NO: 1256)			0	0
JBT1433	Ac-SRYKWF[CGMRDMKGTMSC]VWDKF-NH2 (SEQ ID NO: 1257)			0	0
JBT1434	Ac-SRYKWF[CGMRDMKGTMSC]VWVDF-NH2 (SEQ ID NO: 1120)			28	9
JBT1435	Ac-SRYKWF[CGMRDMKGTMSC]VWVKD-NH2 (SEQ ID NO: 1009)			61	34
JBT1436	Ac-FRYKWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1053)	0.68	95	71	45
JBT1437	Ac-SFYKWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1010)	0.27	95	80	64
JBT1438	Ac-SRFKWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1011)	0.69	88	64	43
JBT1439	Ac-SRYFWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1121)			35	14
JBT1440	Ac-SRYKFF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1258)			3	2
JBT1441	Ac-SRYKWF[CFMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1259)			7	4
JBT1442	Ac-SRYKWF[CGFRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1778)			10	3
JBT1443	Ac-SRYKWF[CGMFDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1779)			22	7
JBT1444	Ac-SRYKWF[CGMRFMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1260)			7	5

도면23f

JBT1445	Ac-SRYKWF[CGMRDFKGTMSC]VWVKF-NH2 (SEQ ID NO: 1012)	0.77	89	64	41	
JBT1446	Ac-SRYKWF[CGMRDMFGTMSC]VWVKF-NH2 (SEQ ID NO: 1054)	0.68	93	69	45	
JBT1447	Ac-SRYKWF[CGMRDMKFTMSC]VWVKF-NH2 (SEQ ID NO: 1227)			46	21	
JBT1448	Ac-SRYKWF[CGMRDMKGFMSC]VWVKF-NH2 (SEQ ID NO: 1123)	0.99	86	60	34	
JBT1449	Ac-SRYKWF[CGMRDMKGTFSC]VWVKF-NH2 (SEQ ID NO: 1013)	0.40	89	74	53	
JBT1450	Ac-SRYKWF[CGMRDMKGTMFC]VWVKF-NH2 (SEQ ID NO: 1124)			44	17	
JBT1451	Ac-SRYKWF[CGMRDMKGTMSC]FWVKF-NH2 (SEQ ID NO: 1087)			34	11	
JBT1452	Ac-SRYKWF[CGMRDMKGTMSC]VFVKF-NH2 (SEQ ID NO: 1125)			27	5	
JBT1453	Ac-SRYKWF[CGMRDMKGTMSC]VWFKF-NH2 (SEQ ID NO: 1261)			6	1	
JBT1454	Ac-SRYKWF[CGMRDMKGTMSC]VWVFF-NH2 (SEQ ID NO: 1262)			47	22	
JBT1455	Ac-GRYKWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1014)	0.79	87	62	40	
JBT1456	Ac-SGYKWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1126)			41	15	
JBT1457	Ac-SRGKWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1180)			15	4	
JBT1458	Ac-SRYGWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1127)			32	10	
JBT1459	Ac-SRYKGF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1263)			0	0	
JBT1460	Ac-SRYKWG[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1264)			0	0	
JBT1461	Ac-SRYKWF[CGGRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1181)			8	0	
JBT1462	Ac-SRYKWF[CGMGDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1128)			33	15	
JBT1463	Ac-SRYKWF[CGMRGMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1129)			23	10	
JBT1464	Ac-SRYKWF[CGMRDGKGTMSC]VWVKF-NH2 (SEQ ID NO: 1088)			50	25	
JBT1465	Ac-SRYKWF[CGMRDMGTMSC]VWVKF-NH2 (SEQ ID NO: 1015)	0.84	92	60	41	
JBT1466	Ac-SRYKWF[CGMRDMKGMSC]VWVKF-NH2 (SEQ ID NO: 1055)			53	26	
JBT1467	Ac-SRYKWF[CGMRDMKGTGSC]VWVKF-NH2 (SEQ ID NO: 1130)			27	11	
JBT1468	Ac-SRYKWF[CGMRDMKGTMGC]VWVKF-NH2 (SEQ ID NO: 1131)			25	9	
JBT1469	Ac-SRYKWF[CGMRDMKGTMSC]GWVKF-NH2 (SEQ ID NO: 1182)			4	0	
JBT1470	Ac-SRYKWF[CGMRDMKGTMSC]VGVKF-NH2 (SEQ ID NO: 1265)			0	0	
JBT1471	Ac-SRYKWF[CGMRDMKGTMSC]VWGKF-NH2 (SEQ ID NO: 1266)			4	0	
JBT1472	Ac-SRYKWF[CGMRDMKGTMSC]VWVGF-NH2 (SEQ ID NO: 1089)			48	21	
JBT1473	Ac-SRYKWF[CGMRDMKGTMSC]VWVKG-NH2 (SEQ ID NO: 1090)			40	16	

도면23g

JBT1474	Ac-KRYKWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1016)	0.37	90	75	55	
JBT1475	Ac-SKYKWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1056)			63	37	
JBT1476	Ac-SRKKWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1132)			31	11	
JBT1477	Ac-SRYKKF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1267)			0	0	
JBT1478	Ac-SRYKWK[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1091)			45	18	
JBT1479	Ac-SRYKWF[CKMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1183)			14	2	
JBT1480	Ac-SRYKWF[CGKRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1133)			27	9	
JBT1481	Ac-SRYKWF[CGMKDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1017)	0.37	88	71	54	
JBT1482	Ac-SRYKWF[CGMRKMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1184)			9	1	
JBT1483	Ac-SRYKWF[CGMRDKKGTMSC]VWVKF-NH2 (SEQ ID NO: 1057)	0.99	83	60	32	
JBT1484	Ac-SRYKWF[CGMRDMKKTMSC]VWVKF-NH2 (SEQ ID NO: 1134)			30	10	
JBT1485	Ac-SRYKWF[CGMRDMKGKMSC]VWVKF-NH2 (SEQ ID NO: 1058)			56	32	
JBT1486	Ac-SRYKWF[CGMRDMKGTKSC]VWVKF-NH2 (SEQ ID NO: 1059)			58	34	
JBT1487	Ac-SRYKWF[CGMRDMKGTMKC]VWVKF-NH2 (SEQ ID NO: 1135)			30	9	
JBT1488	Ac-SRYKWF[CGMRDMKGTMSC]KWVKF-NH2 (SEQ ID NO: 1268)			3	0	
JBT1489	Ac-SRYKWF[CGMRDMKGTMSC]VKVKF-NH2 (SEQ ID NO: 1269)			0	0	
JBT1490	Ac-SRYKWF[CGMRDMKGTMSC]VWKKF-NH2 (SEQ ID NO: 1270)			0	1	
JBT1491	Ac-SRYKWF[CGMRDMKGTMSC]VWVKK-NH2 (SEQ ID NO: 1136)			26	6	
JBT1492	Ac-LRYKWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1018)	0.47	91	72	52	
JBT1493	Ac-SLYKWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1060)	0.48	96	74	54	
JBT1494	Ac-SRLKWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1137)			22	6	
JBT1495	Ac-SRYLWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1138)			30	10	
JBT1496	Ac-SRYKLF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1271)			0	0	
JBT1497	Ac-SRYKWL[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1061)			58	33	
JBT1498	Ac-SRYKWF[CLMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1272)			3	1	
JBT1499	Ac-SRYKWF[CGLRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1139)			21	7	
JBT1500	Ac-SRYKWF[CGMLDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1062)			60	34	
JBT1501	Ac-SRYKWF[CGMRLMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1185)			14	3	
JBT1502	Ac-SRYKWF[CGMRDLKGTMSC]VWVKF-NH2 (SEQ ID NO: 1019)	0.33	93	76	59	

도면23h

JBT1503	Ac-SRYKWF[CGMRDML GTMSC]VWVKF-NH2 (SEQ ID NO: 1063)	0.53	83	66	44	
JBT1504	Ac-SRYKWF[CGMRDMKL TMSC]VWVKF-NH2 (SEQ ID NO: 1140)			37	13	
JBT1505	Ac-SRYKWF[CGMRDMKGL MSC]VWVKF-NH2 (SEQ ID NO: 1092)			66	42	
JBT1506	Ac-SRYKWF[CGMRDMKGTL SC]VWVKF-NH2 (SEQ ID NO: 1064)	0.89	91	63	39	
JBT1507	Ac-SRYKWF[CGMRDMKGTML C]VWVKF-NH2 (SEQ ID NO: 10141)			35	11	
JBT1508	Ac-SRYKWF[CGMRDMKGTMS C]LWVKF-NH2 (SEQ ID NO: 1093)			52	27	
JBT1509	Ac-SRYKWF[CGMRDMKGTMS C]VLVKF-NH2 (SEQ ID NO: 1273)			3	0	
JBT1510	Ac-SRYKWF[CGMRDMKGTMS C]VWLKF-NH2 (SEQ ID NO: 1094)			51	27	
JBT1511	Ac-SRYKWF[CGMRDMKGTMS C]VWVLF-NH2 (SEQ ID NO: 1142)			52	27	
JBT1512	Ac-SRYKWF[CGMRDMKGTMS C]VWVKL-NH2 (SEQ ID NO: 1020)	0.37	91	72	55	
JBT1513	Ac-SSYKWF[CGMRDMKGTMS C]VWVKF-NH2 (SEQ ID NO: 1065)			63	40	
JBT1514	Ac-SRSKWF[CGMRDMKGTMS C]VWVKF-NH2 (SEQ ID NO: 1066)			51	27	
JBT1515	Ac-SRYSWF[CGMRDMKGTMS C]VWVKF-NH2 (SEQ ID NO: 1143)			32	11	
JBT1516	Ac-SRYKSF[CGMRDMKGTMS C]VWVKF-NH2 (SEQ ID NO: 1274)			0	0	
JBT1517	Ac-SRYKWS[CGMRDMKGTMS C]VWVKF-NH2 (SEQ ID NO: 1275)			1	0	
JBT1518	Ac-SRYKWF[CSMRDMKGTMS C]VWVKF-NH2 (SEQ ID NO: 1021)			62	39	
JBT1519	Ac-SRYKWF[CGSRDMKGTMS C]VWVKF-NH2 (SEQ ID NO: 1186)			11	3	
JBT1520	Ac-SRYKWF[CGMSDMKGTMS C]VWVKF-NH2 (SEQ ID NO: 1095)			45	20	
JBT1521	Ac-SRYKWF[CGMRSMKGTMS C]VWVKF-NH2 (SEQ ID NO: 1096)			44	21	
JBT1522	Ac-SRYKWF[CGMRDSKGTMS C]VWVKF-NH2 (SEQ ID NO: 1067)			56	32	
JBT1523	Ac-SRYKWF[CGMRDMSGTMS C]VWVKF-NH2 (SEQ ID NO: 1022)	0.50	91	70	51	
JBT1524	Ac-SRYKWF[CGMRDMKSTMS C]VWVKF-NH2 (SEQ ID NO: 1144)			39	16	
JBT1525	Ac-SRYKWF[CGMRDMKGSMS C]VWVKF-NH2 (SEQ ID NO: 1068)			68	46	
JBT1526	Ac-SRYKWF[CGMRDMKGTSS C]VWVKF-NH2 (SEQ ID NO: 1069)			53	32	
JBT1527	Ac-SRYKWF[CGMRDMKGTMS C]SWVKF-NH2 (SEQ ID NO: 1097)			43	20	
JBT1528	Ac-SRYKWF[CGMRDMKGTMS C]VSVKF-NH2 (SEQ ID NO: 1276)			2	0	
JBT1529	Ac-SRYKWF[CGMRDMKGTMS C]VWSKF-NH2 (SEQ ID NO: 1277)			1	0	
JBT1530	Ac-SRYKWF[CGMRDMKGTMS C]VWVSF-NH2 (SEQ ID NO: 1070)			54	31	
JBT1531	Ac-SRYKWF[CGMRDMKGTMS C]VWVKS-NH2 (SEQ ID NO: 1071)			50	28	

도면23i

JBT1532	Ac-PRYKWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1072)			62	38	
JBT1533	Ac-SPYKWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1145)			31	10	
JBT1534	Ac-SRPKWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1187)			2	0	
JBT1535	Ac-SRYPWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1278)			0	1	
JBT1536	Ac-SRYKPF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1279)			0	0	
JBT1537	Ac-SRYKWP[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1280)			0	0	
JBT1538	Ac-SRYKWF[CGMRDMKGTMSC]PWVKF-NH2 (SEQ ID NO: 1281)			2	2	
JBT1539	Ac-SRYKWF[CGMRDMKGTMSC]VPVKF-NH2 (SEQ ID NO: 1282)			0	0	
JBT1540	Ac-SRYKWF[CGMRDMKGTMSC]VWPKF-NH2 (SEQ ID NO: 1283)			0	0	
JBT1541	Ac-SRYKWF[CGMRDMKGTMSC]VWVPF-NH2 (SEQ ID NO: 1023)	0.47	89	69	49	
JBT1542	Ac-SRYKWF[CGMRDMKGTMSC]VWVKP-NH2 (SEQ ID NO: 1188)			15	3	
JBT1543	Ac-SRYKWF[CGMRDMKGTMSC]VWVKF-OH (SEQ ID NO: 1098)			44	20	
JBT1544	H-SRYKWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1024)	0.64	88	67	44	
JBT1545	H-SRYKWF[CGMRDMKGTMSC]VWVKF-OH (SEQ ID NO: 1099)			40	20	
JBT1546	Ac-SRYKWF[CEMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1284)			3	2	
JBT1547	Ac-SRYKWF[CHMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1285)			2	0	
JBT1548	Ac-SRYKWF[CIMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1286)			6	3	
JBT1549	Ac-SRYKWF[CMMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1189)			9	3	
JBT1550	Ac-SRYKWF[CNMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1190)			20	10	
JBT1551	Ac-SRYKWF[CQMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1146)			31	13	
JBT1552	Ac-SRYKWF[CRMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1147)			32	12	
JBT1553	Ac-SRYKWF[CTMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1148)			36	15	
JBT1554	Ac-SRYKWF[CVMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1287)			6	2	
JBT1555	Ac-SRYKWF[CWMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1191)			8	2	
JBT1556	Ac-SRYKWF[CYMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1288)			5	0	
JBT1557	H-RYKWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 173)			53	27	
JBT1558	H-YKWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1149)			17	3	
JBT1559	Ac-SRYKWF[CGaRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1150)			29	10	
JBT1560	Ac-SRYKWF[CGdRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1289)			1	1	

도면23j

JBT1561	Ac-SRYKWF[CGfRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1192)			9		1
JBT1562	Ac-SRYKWF[CGkRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1193)			5		1
JBT1563	Ac-SRYKWF[CGfRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1194)			14		6
JBT1564	Ac-SRYKWF[CGpRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1100)			65		40
JBT1565	Ac-SRYKWF[CGsRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1195)			13		3
JBT1566	Ac-SRYKWF[CGMRDaKGTMSC]VWVKF-NH2 (SEQ ID NO: 1151)			33		13
JBT1567	Ac-SRYKWF[CGMRDdKGTMSC]VWVKF-NH2 (SEQ ID NO: 1101)			45		21
JBT1568	Ac-SRYKWF[CGMRDfKGTMSC]VWVKF-NH2 (SEQ ID NO: 1074)			63		38
JBT1569	Ac-SRYKWF[CGMRDkKGTMSC]VWVKF-NH2 (SEQ ID NO: 1102)			50		23
JBT1570	Ac-SRYKWF[CGMRDlKGTMSC]VWVKF-NH2 (SEQ ID NO: 1025)	0.74	88	62		43
JBT1571	Ac-SRYKWF[CGMRDpKGTMSC]VWVKF-NH2 (SEQ ID NO: 1196)			15		5
JBT1572	Ac-SRYKWF[CGMRDsKGTMSC]VWVKF-NH2 (SEQ ID NO: 1152)			28		9
JBT1573	Ac-SRYKWF[CGMRDMaGTMSC]VWVKF-NH2 (SEQ ID NO: 1197)			20		4
JBT1574	Ac-SRYKWF[CGMRDMdGTMSC]VWVKF-NH2 (SEQ ID NO: 1153)			39		15
JBT1575	Ac-SRYKWF[CGMRDMfGTMSC]VWVKF-NH2 (SEQ ID NO: 1198)			18		3
JBT1576	Ac-SRYKWF[CGMRDMlGTMSC]VWVKF-NH2 (SEQ ID NO: 1199)			19		6
JBT1577	Ac-SRYKWF[CGMRDMpGTMSC]VWVKF-NH2 (SEQ ID NO: 1200)			14		2
JBT1578	Ac-SRYKWF[CGMRDMsGTMSC]VWVKF-NH2 (SEQ ID NO: 1154)			30		10

도면24a

JBT0122 클래스		FXa 억제 분석			
펩타드	서열	EC50 (μM)	최대 억제 (%)	2.5μM에서 % 억제	0.63μM에서 % 억제
JBT0122	AC-SGYASFPLAVQLHVSKRSKEMALARLYYKTS-NH2 (SEQ ID NO: 2002)	7.92		23	
JBT0126	비오틴-Tds-SGYASFPLAVQLHVSKRSKEMALARLYYKTS-NH2 (SEQ ID NO: 2498)	14.10		17	
JBT0221	Ac-KKSGYASFPLAVQLHVSKRSKEMALARLYYKTSKK-NH2 (SEQ ID NO: 2003)			29	
JBT0222*	Ac-MKSRSLGLAYFAKHSSLEVLQTRKVAAPYY-NH2 (SEQ ID NO: 2127)			0	
JBT0223*	Ac-KMQLRVYASTAHSRYLLGSSLFPKYAEVKA-NH2 (SEQ ID NO: 2297)			0	
JBT0224	Ac-KKSGYASFPLAVQLHVSKRSKEMALARLYYKK-NH2 (SEQ ID NO: 2298)			26	
JBT0225	Ac-KKSGYASFPLAVQLHVSKRSKEMALARKK-NH2 (SEQ ID NO: 2128)			12	
JBT0226	Ac-KKSGYASFPLAVQLHVSKRSKEMAKK-NH2 (SEQ ID NO: 2299)			6	
JBT0227	Ac-KKSGYASFPLAVQLHVSKRSKKK-NH2 (SEQ ID NO: 2300)			0	
JBT0228	Ac-KKASFPLAVQLHVSKRSKEMALARLYYKTSKK-NH2 (SEQ ID NO: 2016)			21	
JBT0229	Ac-KKPLAVQLHVSKRSKEMALARLYYKTSKK-NH2 (SEQ ID NO: 2129)			0	
JBT0230	Ac-KKVQLHVSKRSKEMALARLYYKTSKK-NH2 (SEQ ID NO: 2301)			0	
JBT0231	Ac-KKHVSKRSKEMALARLYYKTSKK-NH2 (SEQ ID NO: 2302)			0	
JBT0232	Ac-KKGYASFPLAVQLHVSKRSKEMKK-NH2 (SEQ ID NO: 2303)			6	
JBT0233	Ac-KKYASFPLAVQLHVSKRSKEMAKK-NH2 (SEQ ID NO: 2304)			8	
JBT0234	Ac-KKVQLHVSKRSKEMALARLYYKKK-NH2 (SEQ ID NO: 2305)			0	
JBT0235	Ac-KKQLHVSKRSKEMALARLYYKTKK-NH2 (SEQ ID NO: 2306)			0	
JBT0236	Ac-KKLHVSKRSKEMALARLYYKTSKK-NH2 (SEQ ID NO: 2307)			0	
JBT0237	Ac-KKSGYASFPLAVQLHVSKRSKEKK-NH2 (SEQ ID NO: 2308)			0	
JBT0359	Ac-ASFPLAVQLHVSKRSKEMA-NH2 (SEQ ID NO: 2309)			0	

도면24b

JBT0360	Ac-SFPLAVQLHVSKRSKEMA-NH2 (SEQ ID NO: 2310)			1	
JBT0361	Ac-FPLAVQLHVSKRSKEMA-NH2 (SEQ ID NO: 2311)			0	
JBT0362	Ac-ASFPLAVQLHVSKRSKEM-NH2 (SEQ ID NO: 2312)			0	
JBT0363	Ac-ASFPLAVQLHVSKRSKE-NH2 (SEQ ID NO: 2313)			0	
JBT0364	Ac-ASFPLAVQLHVSKRSKEMAL-NH2 (SEQ ID NO: 2314)			2	
JBT0365	Ac-ASFPLAVQLHVSKRSKEMALA-NH2 (SEQ ID NO: 2315)			0	
JBT0366	Ac-ASFPLAVQLHVSKRSKEMALAR-NH2 (SEQ ID NO: 2316)			0	
JBT0367	Ac-ASFPLAVQLHVSKRSKEMALARL-NH2 (SEQ ID NO: 2317)			2	
JBT0368	Ac-ASFPLAVQLHVSKRSKEMALARLY-NH2 (SEQ ID NO: 2130)			0	
JBT0369	Ac-ASFPLAVQLHVSKRSKEMALARLYY-NH2 (SEQ ID NO: 2017)			2	
JBT0370	Ac-YASFPLAVQLHVSKRSKEMA-NH2 (SEQ ID NO: 2318)			2	
JBT0371	Ac-GYASFPLAVQLHVSKRSKEMA-NH2 (SEQ ID NO: 2319)			8	
JBT0660	Ac-AGYASFPLAVQLHVSKRSKEMALARLYYKTS-NH2 (SEQ ID NO: 2004)			5	2
JBT0661	Ac-SAYASFPLAVQLHVSKRSKEMALARLYYKTS-NH2 (SEQ ID NO: 2005)			13	5
JBT0662	Ac-SGAASFPLAVQLHVSKRSKEMALARLYYKTS-NH2 (SEQ ID NO: 2131)			4	0
JBT0664	Ac-SGYAAFPLAVQLHVSKRSKEMALARLYYKTS-NH2 (SEQ ID NO: 2006)			7	2
JBT0665	Ac-SGYASAPLAVQLHVSKRSKEMALARLYYKTS-NH2 (SEQ ID NO: 2132)			2	0
JBT0666	Ac-SGYASFALAVQLHVSKRSKEMALARLYYKTS-NH2 (SEQ ID NO: 2001)			12	6
JBT0667	Ac-SGYASFPAAVQLHVSKRSKEMALARLYYKTS-NH2 (SEQ ID NO: 2018)			2	0
JBT0669	Ac-SGYASFPLAAQLHVSKRSKEMALARLYYKTS-NH2 (SEQ ID NO: 2133)			0	0
JBT0670	Ac-SGYASFPLAVALHVSKRSKEMALARLYYKTS-NH2 (SEQ ID NO: 2007)			6	0
JBT0671	Ac-SGYASFPLAVQAHVSKRSKEMALARLYYKTS-NH2 (SEQ ID NO: 2019)			4	1
JBT0672	Ac-SGYASFPLAVQLAVSKRSKEMALARLYYKTS-NH2 (SEQ ID NO: 2134)			2	0
JBT0673	Ac-SGYASFPLAVQLHASKRSKEMALARLYYKTS-NH2 (SEQ ID NO: 2135)			0	0
JBT0674	Ac-SGYASFPLAVQLHVAKRSKEMALARLYYKTS-NH2 (SEQ ID NO: 2008)			10	3
JBT0675	Ac-SGYASFPLAVQLHVSARSKEMALARLYYKTS-NH2 (SEQ ID NO: 2136)			0	0
JBT0676	Ac-SGYASFPLAVQLHVSKASKEMALARLYYKTS-NH2 (SEQ ID NO: 2137)			0	0
JBT0677	Ac-SGYASFPLAVQLHVSKRAKEMALARLYYKTS-NH2 (SEQ ID NO: 2009)			4	0
JBT0678	Ac-SGYASFPLAVQLHVSKRSAEMALARLYYKTS-NH2 (SEQ ID NO: 2010)			6	2

도면24c

JBT0679	Ac-SGYASFPLAVQLHVSKRSKAMALARLYYKTS-NH2 (SEQ ID NO: 2020)			2	0
JBT0680	Ac-SGYASFPLAVQLHVSKRSKEAALARLYYKTS-NH2 (SEQ ID NO: 2138)			0	0
JBT0682	Ac-SGYASFPLAVQLHVSKRSKEMAAARLYYKTS-NH2 (SEQ ID NO: 2139)			2	0
JBT0684	Ac-SGYASFPLAVQLHVSKRSKEMALAALYYKTS-NH2 (SEQ ID NO: 2011)			5	1
JBT0685	Ac-SGYASFPLAVQLHVSKRSKEMALARAYYKTS-NH2 (SEQ ID NO: 2021)			4	0
JBT0686	Ac-SGYASFPLAVQLHVSKRSKEMALARLAYKTS-NH2 (SEQ ID NO: 2140)			3	0
JBT0687	Ac-SGYASFPLAVQLHVSKRSKEMALARLYAKTS-NH2 (SEQ ID NO: 2141)			3	0
JBT0688	Ac-SGYASFPLAVQLHVSKRSKEMALARLYYATS-NH2 (SEQ ID NO: 2012)			8	2
JBT0689	Ac-SGYASFPLAVQLHVSKRSKEMALARLYYKAS-NH2 (SEQ ID NO: 2013)			10	3
JBT0690	Ac-SGYASFPLAVQLHVSKRSKEMALARLYYKTA-NH2 (SEQ ID NO: 2014)			10	3
JBT1579	Ac-GYASFPLAVQLHVAKRSKEMA-NH2 (SEQ ID NO: 2015)			9	4
JBT1580	Ac-GYASFALSVQLHVSKRSKEMA-NH2 (SEQ ID NO: 2320)			3	1
JBT1581	Ac-GYASFALAVQLHVAKRSKEMA-NH2 (SEQ ID NO: 2321)			11	4
JBT1582	Ac-GYASFPLAVQLHVMKRSKEMA-NH2 (SEQ ID NO: 2022)			10	3
JBT1583	Ac-GYASFALAVQLHVMKRSKEMA-NH2 (SEQ ID NO: 2322)			18	5
JBT1599	Ac-FPLAVQLHVSKRSKEMALA-NH2 (SEQ ID NO: 2323)			0	0
JBT1600	Ac-QLHVSKRSKEMALA-NH2 (SEQ ID NO: 2324)			0	0
JBT1601	Ac-SGYASFP-NH2 (SEQ ID NO: 2325)			0	0
JBT1602	Ac-LAVQLHVSKRSKEMALARL-NH2 (SEQ ID NO: 2326)			0	0

도면25a

JBT0047 클래스		외인성 테나제 억제 분석	
펩티드	서열	EC50 (μM)	2.5μM에서 % 억제
JBT0047	Ac-SGVGRLQVAFQSKKNVFVFGYFERLRAKLTS-NH2 (SEQ ID NO: 253)	1.37	20
JBT0051	비오틴-Tids-SGVGRLQVAFQSKKNVFVFGYFERLRAKLTS-NH2 (SEQ ID NO: 962)	1.04	19
JBT0055	Ac-SGVGRLQVAFQSKKNVFVFGYFERLRAKLTS-Tids-파이신(비오틴)-NH2 (SEQ ID NO: 963)	1.67	25
JBT0131	비오틴-Tids-AFQSKKNVFVFGYFERLRAK-NH2 (SEQ ID NO: 964)	2.02	11
JBT0132	비오틴-Tids-FQSKKNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 965)		11
JBT0133	비오틴-Tids-QSKKNVFVFGYFERLRAKLT-NH2 (SEQ ID NO: 966)		9
JBT0134	비오틴-Tids-QSKKNVFVFGYFERLRAK-NH2 (SEQ ID NO: 967)		3
JBT0155	Ac-KKSGVGRLQVAFQSKKNVFVFGYFERLRAKLTSKK-NH2 (SEQ ID NO: 8)	0.38	33
JBT0158	Ac-KKSGVGRLQVAFQSKKNVFVFGYFERLRAKKK-NH2 (SEQ ID NO: 9)		23
JBT0159	Ac-KKSGVGRLQVAFQSKKNVFVFGYFERLKK-NH2 (SEQ ID NO: 744)		18
JBT0160	Ac-KKSGVGRLQVAFQSKKNVFVFGYFKK-NH2 (SEQ ID NO: 745)		22
JBT0161	Ac-KKSGVGRLQVAFQSKKNVFVFKK-NH2 (SEQ ID NO: 746)		6
JBT0162	Ac-KKGRLQVAFQSKKNVFVFGYFERLRAKLTSKK-NH2 (SEQ ID NO: 10)	0.28	34
JBT0163	Ac-KKQVAFQSKKNVFVFGYFERLRAKLTSKK-NH2 (SEQ ID NO: 11)	0.89	31
JBT0164	Ac-KKFQSKKNVFVFGYFERLRAKLTSKK-NH2 (SEQ ID NO: 12)	2.68	24
JBT0165	Ac-KKKKNVFVFGYFERLRAKLTSKK-NH2 (SEQ ID NO: 712)		15
JBT0166	비오티닐-Tids-KKFQSKKNVFVFGYFERLRAKLKK-NH2 (SEQ ID NO: 968)	1.95	36
JBT0169	Ac-KKAFQSKKNVFVFGYFERLRAKKK-NH2 (SEQ ID NO: 254)	2.35	20
JBT0170	Ac-KKFQSKKNVFVFGYFERLRAKLKK-NH2 (SEQ ID NO: 13)	1.90	30

도면25b

JBT0171	Ac-KKQSKKNVFVFGYFERLRAKLTKK -NH2 (SEQ ID NO: 255)	4.12	13
JBT0172	Ac-KKQSKKNVFVFGYFERLRAKKK-NH2 (SEQ ID NO: 406)	3.98	8
JBT0173	비오틴-Tds-SGVGRLQVAFQSKKNVFVFG-NH2 (SEQ ID NO: 971)		3
JBT0174	Ac-KKAFQSKKNVFVFGYFERLRAKLKK-NH2 (SEQ ID NO: 14)	2.90	26
JBT0175	Ac-KKAFQSKKNVFVFGYFERLRAKLTKK-NH2 (SEQ ID NO: 182)	2.29	26
JBT0293	Ac-FQSKKNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 256)	1.62	16
JBT0294	Ac-YQSKKNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 257)	5.31	9
JBT0295	Ac-FSSKKNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 713)	1.80	10
JBT0296	Ac-FQNKKNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 407)	7.83	10
JBT0297	Ac-FQSKNNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 183)		13
JBT0298	Ac-FQSKQNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 747)		15
JBT0299	Ac-FQSKKNVFAFGYFERLRAKL-NH2 (SEQ ID NO: 408)		5
JBT0300	Ac-FQSKKNVFSFGYFERLRAKL-NH2 (SEQ ID NO: 409)		3
JBT0301	Ac-FQSKKNVFTFGYFERLRAKL-NH2 (SEQ ID NO: 410)		0
JBT0302	Ac-FQSKKNVFVAGYFERLRAKL-NH2 (SEQ ID NO: 258)		3
JBT0303	Ac-FQSKKNVFVDGYFERLRAKL-NH2 (SEQ ID NO: 184)	8.80	9
JBT0304	Ac-FQSKKNVFVLGYFERLRAKL-NH2 (SEQ ID NO: 259)		7
JBT0305	Ac-FQSKKNVFVQGYFERLRAKL-NH2 (SEQ ID NO: 260)		0
JBT0306	Ac-FQSKKNVFVSGYFERLRAKL-NH2 (SEQ ID NO: 185)		3
JBT0307	Ac-FQSKKNVFVYGYFERLRAKL-NH2 (SEQ ID NO: 261)	8.72	4
JBT0308	Ac-FQSKKNVFVFGYKERLRAKL-NH2 (SEQ ID NO: 411)		4
JBT0309	Ac-FQSKKNVFVFGYYERLRAKL-NH2 (SEQ ID NO: 412)	8.55	7
JBT0310	Ac-FQSKKNVFVFGYFDRLRAKL-NH2 (SEQ ID NO: 262)		5
JBT0311	Ac-FQSKKNVFVFGYFERLRAKN-NH2 (SEQ ID NO: 748)	3.72	10
JBT0335	Ac-FQSKKNVFVFGYFERLRAK-NH2 (SEQ ID NO: 749)	10.48	5
JBT0336	Ac-FQSKNNVFVAGYFDRLRAKL-OH (SEQ ID NO: 263)	12.13	5

도면25c

JBT0337	Ac-FQSKNNVFVDGYFDRLRAKL-NH2 (SEQ ID NO: 16)	13.33	15
JBT0338	Ac-FQSKNNVFVQGYFDRLRAKL-NH2 (SEQ ID NO: 17)	8.42	9
JBT0339	Ac-FQSKNNVFVSGYFDRLRAKL-NH2 (SEQ ID NO: 18)		9
JBT0340	Ac-FQSKNNVFVYGYFDRLRAKL-NH2 (SEQ ID NO: 186)		9
JBT0341	Ac-FQSKNNVFVFGYFDRLRAKL-NH2 (SEQ ID NO: 187)	8.68	10
JBT0342	Ac-FQSKNNVFVDGYFERLRAKL-NH2 (SEQ ID NO: 19)	7.15	18
JBT0343	Ac-FQSKKNVFVDGYFDRLRAKL-NH2 (SEQ ID NO: 188)		8
JBT0374	Ac-FQSKDNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 20)		19
JBT0375	Ac-FQSKGNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 190)	2.93	30
JBT0376	Ac-FQSKKNAFVFGYFERLRAKL-NH2 (SEQ ID NO: 414)		3
JBT0377	Ac-FQSKKNQFVFGYFERLRAKL-NH2 (SEQ ID NO: 264)		8
JBT0378	Ac-FQSKKNVFVEGYFERLRAKL-NH2 (SEQ ID NO: 21)	9.03	12
JBT0379	Ac-FQSKKNVFVTGYFERLRAKL-NH2 (SEQ ID NO: 22)		6
JBT0380	Ac-FQSKKNVFVWGYFERLRAKL-NH2 (SEQ ID NO: 191)	7.58	10
JBT0381	Ac-FQSPKNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 265)		9
JBT0385	Ac-FQSKKNNFVFGYFERLRAKL-NH2 (SEQ ID NO: 672)		2
JBT0386	Ac-FQSKKNPFVFGYFERLRAKL-NH2 (SEQ ID NO: 415)		5
JBT0388	Ac-FQSKKNVHVFGYFERLRAKL-NH2 (SEQ ID NO: 192)		6
JBT0389	Ac-FQSKKNVVVFGYFERLRAKL-NH2 (SEQ ID NO: 673)		8
JBT0390	Ac-FQSKKNVFQFGYFERLRAKL-NH2 (SEQ ID NO: 674)		5
JBT0391	Ac-FQSKKNVFVGGYFERLRAKL-NH2 (SEQ ID NO: 266)		1
JBT0392	Ac-FQSKKNVFVHGYFERLRAKL-NH2 (SEQ ID NO: 23)		4
JBT0393	Ac-FQSKKNVFVKGYFERLRAKL-NH2 (SEQ ID NO: 193)		3
JBT0394	Ac-FQSKKNVFVMGYFERLRAKL-NH2 (SEQ ID NO: 24)	4.38	8
JBT0395	Ac-FQSKKNVFVNGYFERLRAKL-NH2 (SEQ ID NO: 25)		7
JBT0396	Ac-FQSKKNVFVPGYFERLRAKL-NH2 (SEQ ID NO: 194)	8.71	6

도면25d

JBT0397	Ac-FQSKKNVFVRGYFERLRAKL-NH2 (SEQ ID NO: 195)		4
JBT0398	Ac-FQSKKNVFVFGYFEELRAKL-NH2 (SEQ ID NO: 196)		8
JBT0399	Ac-FQSKKNVFVFGYFELLRAKL-NH2 (SEQ ID NO: 750)		7
JBT0400	Ac-FQSKKNVFVFGYFLRLRAKL-NH2 (SEQ ID NO: 267)		13
JBT0401	Ac-FQSKKNVFVFGYFERLRAVL-NH2 (SEQ ID NO: 416)		4
JBT0402	비오틴-Tds-FQSKNNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 973)		11
JBT0403	비오틴-Tds-FQSKKNVFVDGYFERLRAKL-NH2 (SEQ ID NO: 972)		9
JBT0404	비오틴-Tds-FQSKKNVFVFGYFDRLRAKL-NH2 (SEQ ID NO: 974)	3.38	14
JBT0405	비오틴-FQSKKNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 975)		15
JBT0406	Ac-Tds-FQSKKNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 268)		9
JBT0471	Ac-FQSKGNVFVTGYFERLRAKL-NH2 (SEQ ID NO: 26)		32
JBT0472	Ac-FQSKGNVFVNGYFERLRAKL-NH2 (SEQ ID NO: 27)		22
JBT0473	Ac-FQSKGNVFVHGYFERLRAKL-NH2 (SEQ ID NO: 28)		24
JBT0474	Ac-FQSKGNVFVKGYFERLRAKL-NH2 (SEQ ID NO: 29)		33
JBT0475	Ac-FQSKGNVFVEGYFERLRAKL-NH2 (SEQ ID NO: 30)		30
JBT0476	Ac-FQSKGNVFVDGYFDRLRAKL-NH2 (SEQ ID NO: 31)		33
JBT0477	Ac-FQSKGNVFVDGYFERLRAKL-NH2 (SEQ ID NO: 32)	2.22	36
JBT0478	Ac-FQSKDNVFVTGYFERLRAKL-NH2 (SEQ ID NO: 33)		19
JBT0479	Ac-FQSKDNVFVNGYFERLRAKL-NH2 (SEQ ID NO: 34)		18
JBT0480	Ac-FQSKDNVFVHGYFERLRAKL-NH2 (SEQ ID NO: 35)		16
JBT0481	Ac-FQSKDNVFVKGYFERLRAKL-NH2 (SEQ ID NO: 36)		15
JBT0482	Ac-FQSKDNVFVEGYFERLRAKL-NH2 (SEQ ID NO: 37)		23
JBT0483	Ac-FQSKDNVFVDGYFERLRAKL-NH2 (SEQ ID NO: 38)		24
JBT0484	Ac-FQSKDNVFVDGYFDRLRAKL-NH2 (SEQ ID NO: 976)	4.89	19
JBT0485	Ac-FQSKNNVFVTGYFERLRAKL-NH2 (SEQ ID NO: 39)		21
JBT0486	Ac-FQSKNNVFVNGYFERLRAKL-NH2 (SEQ ID NO: 40)		19

도면25e

JBT0487	Ac-FQSKNNVFVHGYFERLRAKL-NH2 (SEQ ID NO: 41)		19
JBT0488	Ac-FQSKNNVFVKGYFERLRAKL-NH2 (SEQ ID NO: 42)		18
JBT0489	Ac-FQSKNNVFVEGYFERLRAKL-NH2 (SEQ ID NO: 43)		21
JBT0490	Ac-FQSKQNVFVTGYFERLRAKL-NH2 (SEQ ID NO: 44)		9
JBT0491	Ac-FQSKQNVFVNGYFERLRAKL-NH2 (SEQ ID NO: 197)		10
JBT0492	Ac-FQSKQNVFVHGYFERLRAKL-NH2 (SEQ ID NO: 198)		7
JBT0493	Ac-FQSKQNVFVKGYFERLRAKL-NH2 (SEQ ID NO: 199)		7
JBT0494	Ac-FQSKQNVFVDGYFERLRAKL-NH2 (SEQ ID NO: 45)		15
JBT0495	Ac-FQSKQNVFVEGYFERLRAKL-NH2 (SEQ ID NO: 200)		15
JBT0497	Ac-NmetPhe-QSKGNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 201)	1.13	15
JBT0498	Ac-FQ-NmetSer-KGNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 675)		9
JBT0499	Ac-FQS-NmetLys-GNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 202)		11
JBT0500	Ac-FQSK-NmetGly-NVFVFGYFERLRAKL-NH2 (SEQ ID NO: 46)	1.11	45
JBT0501	Ac-FQSKGN-NmetV-FVFGYFERLRAKL-NH2 (SEQ ID NO: 417)		0
JBT0502	Ac-FQSKGNV-NmetPhe-VFGYFERLRAKL-NH2 (SEQ ID NO: 751)		1
JBT0503	Ac-FQSKGNVF-NmetV-FGYFERLRAKL-NH2 (SEQ ID NO: 676)		0
JBT0504	Ac-FQSKGNVFV-NmetPhe-GYFERLRAKL-NH2 (SEQ ID NO: 418)		5
JBT0505	Ac-FQSKGNVFVF-NmetGly-YFERLRAKL-NH2 (SEQ ID NO: 269)		9
JBT0506	Ac-FQSKGNVFVFG-NmetTyr-FERLRAKL-NH2 (SEQ ID NO: 714)		0
JBT0507	Ac-FQSKGNVFVFGY-NmetPhe-ERLRAKL-NH2 (SEQ ID NO: 677)		0
JBT0508	Ac-FQSKGNVFVFGYF-NmetGlu-RLRAKL-NH2 (SEQ ID NO: 678)		2
JBT0509	Ac-FQSKGNVFVFGYFE-Nmr-LRAKL-NH2 (SEQ ID NO: 752)		2
JBT0510	Ac-FQSKGNVFVFGYFER-NmetLeu-RAKL-NH2 (SEQ ID NO: 753)		3
JBT0511	Ac-FQSKGNVFVFGYFERL-Nmr-AKL-NH2 (SEQ ID NO: 754)		7
JBT0512	Ac-FQSKGNVFVFGYFERLR-NmetAla-KL-NH2 (SEQ ID NO: 679)		1
JBT0513	Ac-FQSKGNVFVFGYFERLRA-NmetLys-L-NH2 (SEQ ID NO: 755)		3

도면25f

JBT0514	Ac-FQSKGNVFVFGYFERLRAK-NmetLeu-NH2 (SEQ ID NO: 419)		5
JBT0515	Ac-bHomoPhe-QSKGNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 420)		0
JBT0516	Ac-F-bHomoGln-SKGNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 680)		0
JBT0517	Ac-FQ-bHomoSer-KGNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 421)		0
JBT0518	Ac-FQS-bHomoLys-GNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 422)		0
JBT0519	Ac-FQSK-bAla-NVFVFGYFERLRAKL-NH2 (SEQ ID NO: 270)		0
JBT0520	Ac-FQSKG-bGln-VFVFGYFERLRAKL-NH2 (SEQ ID NO: 271)		0
JBT0521	Ac-FQSKGN-bLeu-FVFGYFERLRAKL-NH2 (SEQ ID NO: 756)		0
JBT0522	Ac-FQSKGNV-bHomoPhe-VFGYFERLRAKL-NH2 (SEQ ID NO: 681)		0
JBT0523	Ac-FQSKGNVF-bLeu-FGYFERLRAKL-NH2 (SEQ ID NO: 757)		0
JBT0524	Ac-FQSKGNVFV-bHomoPhe-GYFERLRAKL-NH2 (SEQ ID NO: 682)		0
JBT0525	Ac-FQSKGNVFVF-bAla-YFERLRAKL-NH2 (SEQ ID NO: 758)		0
JBT0526	Ac-FQSKGNVFVFG-bHomoTyr-FERLRAKL-NH2 (SEQ ID NO: 759)		0
JBT0527	Ac-FQSKGNVFVFGY-bHomoPhe-ERLRAKL-NH2 (SEQ ID NO: 683)		0
JBT0528	Ac-FQSKGNVFVFGYF-bE-RLRAKL-NH2 (SEQ ID NO: 272)		8
JBT0529	Ac-FQSKGNVFVFGYFE-bHomoArg-LRAKL-NH2 (SEQ ID NO: 760)		0
JBT0530	Ac-FQSKGNVFVFGYFER-Btl-RAKL-NH2 (SEQ ID NO: 684)		0
JBT0531	Ac-FQSKGNVFVFGYFERL-bHomoArg-AKL-NH2 (SEQ ID NO: 203)		0
JBT0532	Ac-FQSKGNVFVFGYFERLR-bAla-KL-NH2 (SEQ ID NO: 423)		0
JBT0533	Ac-FQSKGNVFVFGYFERLRA-bHomoK-L-NH2 (SEQ ID NO: 424)		0
JBT0534	Ac-FQSKGNVFVFGYFERLRAK-Btl-NH2 (SEQ ID NO: 204)		8
JBT0535	Ac-FQSKGNVFVFGYFE-Cit-LRAKL-NH2 (SEQ ID NO: 685)		1
JBT0536	Ac-FQSKGNVFVFGYFERL-Cit-AKL-NH2 (SEQ ID NO: 273)		11
JBT0537	Ac-FQSKGNVFVFGYFE-Nle-LRAKL-NH2 (SEQ ID NO: 761)		7
JBT0538	Ac-FQSKGNVFVFGYFERL-Nle-AKL-NH2 (SEQ ID NO: 425)		15
JBT0564	Ac-FQSKKNVFVFGYFKRLRAKL-NH2 (SEQ ID NO: 205)		0

도면25g

JBT0578	Ac-FQSKKNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 441)		0
JBT0613	Ac-FQSKGNVFVFGYFERLRAKL-OH (SEQ ID NO: 283)		6
JBT0614	NH2-FQSKGNVFVFGYFERLRAKL-OH (SEQ ID NO: 720)		4
JBT0615	NH2-FQSKGNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 284)		6
JBT0651	Ac-FQSKGNVHVKGYFERLRAKL-NH2 (SEQ ID NO: 48)		6
JBT0652	Ac-FQSKGNVHVDGYFERLRAKL-NH2 (SEQ ID NO: 49)		8
JBT0653	Ac-FQSPGNVHVKGYFERLRAKL-NH2 (SEQ ID NO: 50)		9
JBT0654	Ac-FQSPGNVHVDGYFERLRAKL-NH2 (SEQ ID NO: 51)		11
JBT0655	Ac-FQSKGNIFVFGYFERLRAKL-NH2 (SEQ ID NO: 52)		9
JBT0656	Ac-FQSKGNLFVFGYFERLRAKL-NH2 (SEQ ID NO: 286)		5
JBT0657	Ac-FQSKGNVFIFGYFERLRAKL-NH2 (SEQ ID NO: 287)		8
JBT0658	Ac-FQSKGNVFLFGYFERLRAKL-NH2 (SEQ ID NO: 694)		3
JBT0663	Ac-FQSKaNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 53)		22
JBT0668	Ac-FQSKaNVFVTGYFARLRAKL-NH2 (SEQ ID NO: 54)		16
JBT0681	Ac-FQSK-Nmg-AVFVFGYFARLRAKL-NH2 (SEQ ID NO: 206)		25
JBT0683	Ac-FQSK-Nmg-AVFVDGYFARLRAKL-NH2 (SEQ ID NO: 55)		38
JBT0708	Ac-FQSKaNVFVAGYFERLRAKL-NH2 (SEQ ID NO: 59)		25
JBT0714	Ac-FQSKaAVFVDGYFARLRAKL-NH2 (SEQ ID NO: 60)		29
JBT0717	Ac-FQSK-Nmg-NVFVDGYFERLRAKL-NH2 (SEQ ID NO: 61)		50
JBT0720	Ac-FQSK-Nmg-NVFVTGYFARLRAKL-NH2 (SEQ ID NO: 62)		30
JBT0740	Ac-FQSKGNVFVDGYFERL-Aib-AKL-NH2 (SEQ ID NO: 66)		36
JBT0754	Ac-FQSK-Nmg-AVFVTGYFARLRAKL-NH2 (SEQ ID NO: 67)		27
JBT0765	Ac-FQSKGNVFVDGYFERL-Eew-AKL-NH2 (SEQ ID NO: 68)		37
JBT0780	Ac-FQSK-Nmg-NVFVFGYFARLRAKL-NH2 (SEQ ID NO: 70)	1.92	35
JBT0789	Ac-FQSK-Nmg-NVFVDGYFERL-Nle-AKL-NH2 (SEQ ID NO: 71)	0.79	51
JBT0806	Ac-FQSK-Nmg-NVFVAGYFARLRAKL-NH2 (SEQ ID NO: 74)	2.42	38

도면25h

JBT0837	Ac-FQSK-Nmg-NVFVTGYFERL-Nle-AKL-NH2 (SEQ ID NO: 213)		33
JBT0844	Ac-FQSKaNVFVDGYFERLRAKL-NH2 (SEQ ID NO: 300)		23
JBT0850	Ac-FQSKaAVFVAGYFARLRAKL-NH2 (SEQ ID NO: 302)		24
JBT0854	Ac-FQSKaAVFVAGYFARL-Nle-AKL-NH2 (SEQ ID NO: 490)		14
JBT0870	Ac-FQSKaAVFVTGYFARLRAKL-NH2 (SEQ ID NO: 214)		20
JBT0886	Ac-FQSKaNVFVDGYFARLRAKL-NH2 (SEQ ID NO: 215)		21
JBT0919	Ac-FQSKaNVFVTGYFERLRAKL-NH2 (SEQ ID NO: 79)		24
JBT0931	Ac-FQSKGNVFVDGYFERL-Eag-AKL-NH2 (SEQ ID NO: 82)		24
JBT0946	Ac-FQSKGNVFVDGYFERL-Dab-AKL-NH2 (SEQ ID NO: 85)		29
JBT0950	Ac-FQSKaNVFVFGYFARLRAKL-NH2 (SEQ ID NO: 217)		14
JBT0973	Ac-FQSKGNVFVDGYFERL-Cha-AKL-NH2 (SEQ ID NO: 92)	1.21	32
JBT1006	Ac-FQSKGNVFVDGYFERL-Hle-AKL-NH2 (SEQ ID NO: 96)	1.35	35
JBT1035	Ac-FQSK-Nmg-AVFVAGYFARL-Nle-AKL-NH2 (SEQ ID NO: 218)		25
JBT1037	Ac-FQSKGNVFVDGYFERL-Nle-AKL-NH2 (SEQ ID NO: 104)		30
JBT1043	Ac-FQSKaNVFVDGYFERL-Nle-AKL-NH2 (SEQ ID NO: 106)		27
JBT1082	Ac-FQSKaAVFVFGYFARLRAKL-NH2 (SEQ ID NO: 565)		16
JBT1084	Ac-FQSK-Nmg-AVFVAGYFARLRAKL-NH2 (SEQ ID NO: 109)		28
JBT1122	Ac-FQSK-Nmg-NVFVDGYFARL-Nle-AKL-NH2 (SEQ ID NO: 113)	0.81	43
JBT1133	Ac-FQSKkAVFVDGYFARLRAKL-NH2(SEQ ID NO: 115)		31
JBT1134	Ac-FQSKGAVFVDGYFARLRAKL-NH2 (SEQ ID NO: 116)		28
JBT1135	Ac-FQSKDAVFVDGYFARLRAKL-NH2 (SEQ ID NO: 221)		22
JBT1136	Ac-FQSKdAVFVDGYFARLRAKL-NH2 (SEQ ID NO: 117)		36
JBT1137	Ac-FQSKkAVFVAGYFARLRAKL-NH2 (SEQ ID NO: 118)		23
JBT1138	Ac-FQSKGAVFVAGYFARLRAKL-NH2 (SEQ ID NO: 222)		19
JBT1139	Ac-FQSKDAVFVAGYFARLRAKL-NH2 (SEQ ID NO: 223)		16
JBT1140	Ac-FQSKdAVFVAGYFARLRAKL-NH2 (SEQ ID NO: 119)		29

도면25i

JBT1141	Ac-FQSKkAVFVKGYFARLRAKL-NH2 (SEQ ID NO: 120)		13
JBT1142	Ac-FQSKGAVFVKGYFARLRAKL-NH2 (SEQ ID NO: 224)		11
JBT1143	Ac-FQSKDAVFVKGYFARLRAKL-NH2 (SEQ ID NO: 225)		6
JBT1144	Ac-FQSKdAVFVKGYFARLRAKL-NH2 (SEQ ID NO: 121)		15
JBT1145	Ac-FQSKkAVFVTGYFARLRAKL-NH2 (SEQ ID NO: 122)		13
JBT1146	Ac-FQSKGAVFVTGYFARLRAKL-NH2 (SEQ ID NO: 226)		12
JBT1147	Ac-FQSKDAVFVTGYFARLRAKL-NH2 (SEQ ID NO: 227)		14
JBT1148	Ac-FQSKdAVFVTGYFARLRAKL-NH2 (SEQ ID NO: 123)		27
JBT1149	Ac-FQSKGNVFvFGYFERLRAKL-NH2 (SEQ ID NO: 936)		0
JBT1151	Ac-FQSKKNVFVFGYFERLRAKD-NH2 (SEQ ID NO: 937)		0
JBT1152	Ac-FQSKKNVFFFGYFERLRAKL-NH2 (SEQ ID NO: 735)		0
JBT1153	Ac-FQSKKNVFVFGYFERLGAKL-NH2 (SEQ ID NO: 705)		4
JBT1155	Ac-FQSK-Nmg-NVFVTGYFERLRAKL-NH2 (SEQ ID NO: 125)		32
JBT1156	Ac-FQSKaNVFVDGYFARL-Nle-AKL-NH2 (SEQ ID NO: 126)		22
JBT1157	Ac-FQSKaNVFVAGYFARLRAKL-NH2 (SEQ ID NO: 127)		22
JBT1162	Ac-FQSKpNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 129)		51
JBT1396	Ac-FQSK-Nmg-NVFVAGYFERLRAKL-NH2 (SEQ ID NO: 161)		34
JBT1584	Ac-FQSK-Nmg-NVFVDGYFERL-Aib-AKL-NH2 (SEQ ID NO: 164)		57
JBT1585	Ac-FQSK-Nmg-NVFVTGYFERL-Aib-AKL-NH2 (SEQ ID NO: 165)		48
JBT1590	Ac-FQSKGNVFV[CGYFERL-Aib-AKLC]-NH2 (SEQ ID NO: 401)		22
JBT1591	Ac-FQSKGNVFVDGYF[CRL-Aib-AKLC]-NH2 (SEQ ID NO: 168)		23
JBT1592	Ac-[CFQSKGNVFVDGYFERLC]AKL-NH2 (SEQ ID NO: 402)		11
JBT1593	Ac-FQSK[CNVFVDGYFERLC]AKL-NH2 (SEQ ID NO: 670)		13
JBT1594	Ac-FQSKGNVFV[CGYFERLC]AKL-NH2 (SEQ ID NO: 671)		5
JBT1595	Ac-[CFQSKGNVFVC]GYFERL-Aib-AKL-NH2 (SEQ ID NO: 403)		12
JBT1596	Ac-[CFQSKGC]VFVEGYFERL-Aib-AKL-NH2 (SEQ ID NO: 404)		13

도면25j

JBT1843	Ac-FQSKGNIFVDGYFERLHAKL-NH2 (SEQ ID NO: 169)		7
JBT1844	Ac-FQSKNNVFVDGYFKRLRAKL-NH2 (SEQ ID NO: 170)		6
JBT1845	Ac-FQSYKHVFVDGYFERLRAKL-NH2 (SEQ ID NO: 249)		6
JBT1846	Ac-FQSKGIVFVDGYFKRLRAKL-NH2 (SEQ ID NO: 250)		7
JBT1847	Ac-YQTKGNVFVDGYFERLRAKL-NH2 (SEQ ID NO: 171)		16
JBT1853	PEG(40kD)-FQSKGNVFVDGYFERL-Aib-AKL-NH2 (SEQ ID NO: 175)		56
JBT1855	Ac-FQSKGNVFVDGYFERL-Aib-AKLC(PEG40kD)-NH2 (SEQ ID NO: 252)		59

도면26a

JBT0120 클래스			외인성 테나제 억제 분석	
펩티드	서열		EC50 (μM)	2.5μM에서 % 억제
JBT0120	Ac-SGASRYKWF[CGMRDMKGTMSC]VWVKFRYDTS-NH2 (SEQ ID NO: 1047)		0.88	45
JBT0124	비오틴-Tids-SGASRYKWF[CGMRDMKGTMSCVWVKFRYDTS-NH2 (SEQ ID NO: 1290)		1.26	36
JBT0247	Ac-SGASRYKWF[CGMRDMKGTMSCVWVKFRYDTS-NH2 (SEQ ID NO: 1213)		0.61	42
JBT0248	Ac-KKSGASRYKWF[CGMRDMKGTMSC]VWVKFRYDTSKK-NH2 (SEQ ID NO: 1001)		0.27	52
JBT0249	Ac-KKSGASRYKWF[CGMRDMKGTMSKK-NH2 (SEQ ID NO: 1214)		1.06	16
JBT0250	Ac-KKSRYKWF[CGMRDMKGTMSC]VWKK-NH2 (SEQ ID NO: 1201)		0.61	19
JBT0251	Ac-KKKWF[CGMRDMKGTMSC]VWVKFKK-NH2 (SEQ ID NO: 1202)		0.63	23
JBT0252	Ac-KK[CGMRDMKGTMSC]VWVKFRYDKK-NH2 (SEQ ID NO: 1215)		1.02	18
JBT0253	Ac-KKMRDMKGTMSCVWVKFRYDTSKK-NH2 (SEQ ID NO: 1216)		0.55	23
JBT0319	Ac-SGASRYKWF[CGMRDMKGTMSC]VWVKFRY-NH2 (SEQ ID NO: 1002)			60
JBT0320	Ac-SGASRYKWF[CGMRDMKGTMSC]VWVK-NH2 (SEQ ID NO: 1103)		6.40	7
JBT0321	Ac-SGASRYKWF[CGMRDMKGTMSC]V-NH2 (SEQ ID NO: 1217)			1
JBT0322	Ac-SGASRYKWF[CGMRDMKGTM-NH2 (SEQ ID NO: 1218)			3
JBT0323	Ac-SRYKWF[CGMRDMKGTMSC]VWVKFRYDTS-NH2 (SEQ ID NO: 1076)		0.77	48
JBT0324	Ac-KWF[CGMRDMKGTMSC]VWVKFRYDTS-NH2 (SEQ ID NO: 1155)		2.44	18
JBT0325	Ac-[CGMRDMKGTMSC]VWVKFRYDTS-NH2 (SEQ ID NO: 1219)			4
JBT0326	Ac-RDMKGTMSCVWVKFRYDTS-NH2 (SEQ ID NO: 1220)			3
JBT0327	Ac-SGASRYKWF[CGMRDMKGTMS-NH2 (SEQ ID NO: 1222)			0
JBT0328	Ac-SRYKWF[CGMRDMKGTMSC]VW-NH2 (SEQ ID NO: 1223)			1
JBT0329	Ac-KWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1156)			8
JBT0330	Ac-[CGMRDMKGTMSC]VWVKFRYD-NH2 (SEQ ID NO: 1224)			7

도면26b

JBT0331	Ac-MRDMKGTMSCVWVKFRYDTS-NH2 (SEQ ID NO: 1225)		5
JBT0332	Ac-SRYKWF[CGMRDMKGTMSCVW-NH2 (SEQ ID NO: 1206)		5
JBT0333	Ac-KWF[CGMRDMKGTMSCVWVKF-NH2 (SEQ ID NO: 1207)		11
JBT0334	Ac-CGMRDMKGTMSCVWVKFRYD-NH2 (SEQ ID NO: 1227)		3
JBT0409	Ac-SGASRYKWFSGMRDMKGTMSSVWVKFRYDTS-NH2 (SEQ ID NO: 1204)		5
JBT0410	Ac-SGASRYKWFSG-Nle-RD-Nle-KGT-Nle-SSVWVKFRYDTS-NH2 (SEQ ID NO: 1208)		7
JBT0411	Ac-SGASRYKWF[CG-Nle-RD-Nle-KGT-Nle-SC]VWVKFRYDTS-NH2 (SEQ ID NO: 1104)		24
JBT0412	Ac-KWF[CG-Nle-RD-Nle-KGT-Nle-SC]VWVKF-NH2 (SEQ ID NO: 1209)		12
JBT0413	Ac-KWFSGMRDMKGTMSSVWVKF-NH2 (SEQ ID NO: 1228)		2
JBT0414	Ac-KWFSG-Nle-RD-Nle-KGT-Nle-SSVWVKF-NH2 (SEQ ID NO: 1205)		8
JBT0415	Ac-SRYKWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1003)	0.19	52
JBT0416	Ac-SRYKWF[CG-Nle-RD-Nle-KGT-Nle-SC]VWVKF-NH2 (SEQ ID NO: 1077)		46
JBT0417	Ac-SRYKWFSGMRDMKGTMSSVWVKF-NH2 (SEQ ID NO: 1229)		11
JBT0418	Ac-SRYKWFSG-Nle-RD-Nle-KGT-Nle-SSVWVKF-NH2 (SEQ ID NO: 1210)		11
JBT0419	Ac-SGGRKHKHFLRSNGKPSRALSSMIFWRWSTS-NH2 (SEQ ID NO: 1293)		7
JBT0435*	Ac-RKRDVSGKM[CWSGFGSKWFRC]ADMMTYYSVT-NH2 (SEQ ID NO: 1211)		5
JBT0436*	Ac-RWSGKSTYS[CDAMVRRMGMKC]FSFGWTDVYK-NH2 (SEQ ID NO: 1212)		0
JBT0437	Ac-ARYKWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1048)		52
JBT0438	Ac-SAYKWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1078)		46
JBT0439	Ac-SRAKWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1105)		38
JBT0440	Ac-SRYAWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1106)		34
JBT0441	Ac-SRYKAF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1230)		1
JBT0442	Ac-SRYKWA[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1231)		17
JBT0443	Ac-SRYKWFAGMRDMKGTMSCVWVKF-NH2 (SEQ ID NO: 1157)		7
JBT0444	Ac-SRYKWF[CAMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1004)		63
JBT0445	Ac-SRYKWF[CGARDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1107)		12
JBT0446	Ac-SRYKWF[CGMADMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1079)		46
JBT0447	Ac-SRYKWF[CGMRAMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1158)		15
JBT0448	Ac-SRYKWF[CGMRDARGTMSC]VWVKF-NH2 (SEQ ID NO: 1108)		33

도면26c

JBT0449	Ac-SRYKWF[CGMRDMAGTMSC]VWVKF-NH2 (SEQ ID NO: 1080)		55
JBT0450	Ac-SRYKWF[CGMRDMKATMSC]VWVKF-NH2 (SEQ ID NO: 1159)		34
JBT0451	Ac-SRYKWF[CGMRDMKGAMSC]VWVKF-NH2 (SEQ ID NO: 1081)		46
JBT0452	Ac-SRYKWF[CGMRDMKGTASC]VWVKF-NH2 (SEQ ID NO: 1109)		31
JBT0453	Ac-SRYKWF[CGMRDMKGTMAC]VWVKF-NH2 (SEQ ID NO: 1110)	0.97	40
JBT0454	Ac-SRYKWF[CGMRDMKGTMSAVWVKF-NH2 (SEQ ID NO: 1160)		0
JBT0455	Ac-SRYKWF[CGMRDMKGTMSC]AWVKF-NH2 (SEQ ID NO: 1049)	0.95	30
JBT0456	Ac-SRYKWF[CGMRDMKGTMSCVAVKF-NH2 (SEQ ID NO: 1232)		0
JBT0457	Ac-SRYKWF[CGMRDMKGTMSC]VWAKF-NH2 (SEQ ID NO: 1161)		17
JBT0458	Ac-SRYKWF[CGMRDMKGTMSC]VWVAF-NH2 (SEQ ID NO: 1082)		52
JBT0459	Ac-SRYKWF[CGMRDMKGTMSC]VWVKA-NH2 (SEQ ID NO: 1083)		38
JBT0460	Ac-RYKWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1050)		51
JBT0461	Ac-YKWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1111)		40
JBT0462	Ac-SRYKWF-GM[CRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1233)		0
JBT0463	Ac-SRYKWF-GMRD[CMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1234)		11
JBT0464	Ac-SRYKWF-GMRDMK[CGTMSC]VWVKF-NH2 (SEQ ID NO: 1235)		10
JBT0465	Ac-SRYKWF[CGMRDMKGTC]MSVWVKF-NH2 (SEQ ID NO: 1236)		7
JBT0466	Ac-SRYKWF[CGMRDMKC]GTMSVWVKF-NH2 (SEQ ID NO: 1237)		11
JBT0467	Ac-SRYKWF[CGMRDC]MKGTMSVWVKF-NH2 (SEQ ID NO: 1238)		11
JBT0468	Ac-SRYKWF-G[CMRDMKGTMC]SVWVKF-NH2 (SEQ ID NO: 1239)		7
JBT0469	Ac-SRYKWF-GM[CRDMKGTC]MSVWVKF-NH2 (SEQ ID NO: 1240)		11
JBT0470	Ac-SRYKWF-GMR[CDMKGC]TMSVWVKF-NH2 (SEQ ID NO: 1162)		2
JBT0617	Ac-SRYKWF[homoC-GMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1112)		21
JBT0618	Ac-SRYKWF[CGMRDMKGTMS-homoC]VWVKF-NH2 (SEQ ID NO: 1163)		11
JBT0619	Ac-SRYKWF[homoC-GMRDMKGTMS-homoC]VWVKF-NH2 (SEQ ID NO: 1241)		1
JBT0620	Ac-SRYKWF[Dap-GMRDMKGTMS-D]VWVKF-NH2 (SEQ ID NO: 1242)		0
JBT0625	Ac-SRYKWF[CMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1244)		0
JBT0626	Ac-SRYKWF[CGMRDKGTMSC]VWVKF-NH2 (SEQ ID NO: 1164)		7
JBT0627	Ac-SRYKWF[CGMRDMGTMSC]VWVKF-NH2 (SEQ ID NO: 1165)		3

도면26d

JBT0628	Ac-SRYKWF[CGMRDMKGMSC]VWVKF-NH2 (SEQ ID NO: 1166)		0
JBT0629	Ac-SRYKWF[cGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1167)		3
JBT0631	Ac-SRYKWF[CGmRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1113)		18
JBT0632	Ac-SRYKWF[CGMrDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1245)		0
JBT0633	Ac-SRYKWF[CGMRdMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1168)		2
JBT0634	Ac-SRYKWF[CGMRDmKGTMSC]VWVKF-NH2 (SEQ ID NO: 1051)	0.47	44
JBT0635	Ac-SRYKWF[CGMRDMkGTMSC]VWVKF-NH2 (SEQ ID NO: 1114)		10
JBT0637	Ac-SRYKWF[CGMRDMKGtMSC]VWVKF-NH2 (SEQ ID NO: 1169)		0
JBT0638	Ac-SRYKWF[CGMRDMKGTmSC]VWVKF-NH2 (SEQ ID NO: 1246)		0
JBT0639	Ac-SRYKWF[CGMRDMKGTMsC]VWVKF-NH2 (SEQ ID NO: 1170)		3
JBT0640	Ac-SRYKWF[CGMRDMKGTMSc]VWVKF-NH2 (SEQ ID NO: 1171)		1
JBT0641	Ac-SRYKWF[CPMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1247)		0
JBT0642	Ac-SRYKWF[CGPRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1248)		0
JBT0643	Ac-SRYKWF[CGMPDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1006)		31
JBT0644	Ac-SRYKWF[CGMRPMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1172)		17
JBT0645	Ac-SRYKWF[CGMRDPKGTMSC]VWVKF-NH2 (SEQ ID NO: 1084)		23
JBT0646	Ac-SRYKWF[CGMRDMPGTMSC]VWVKF-NH2 (SEQ ID NO: 1173)		2
JBT0647	Ac-SRYKWF[CGMRDMKPTMSC]VWVKF-NH2 (SEQ ID NO: 1249)		0
JBT0648	Ac-SRYKWF[CGMRDMKGPMSC]VWVKF-NH2 (SEQ ID NO: 1174)		3
JBT0649	Ac-SRYKWF[CGMRDMKGTPSC]VWVKF-NH2 (SEQ ID NO: 1175)		2
JBT0650	Ac-SRYKWF[CGMRDMKGTMPC]VWVKF-NH2 (SEQ ID NO: 1250)		0
JBT0787	Ac-SRYKWF[CG-SeMet-RD-SeMet-KGT-SeMet-SC]VWVKF-NH2 (SEQ ID NO: 1292)		55
JBT1416	Ac-DRYKWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1007)		47
JBT1426	Ac-SRYKWF[CGMRDMDGTMSC]VWVKF-NH2 (SEQ ID NO: 1008)		40
JBT1436	Ac-ERYKWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1053)		51
JBT1437	Ac-SFYKWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO:1010)		53
JBT1438	Ac-SRFKWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1011)		49
JBT1445	Ac-SRYKWF[CGMRDFKGTMSC]VWVKF-NH2 (SEQ ID NO: 1012)		39
JBT1446	Ac-SRYKWF[CGMRDMFGTMSC]VWVKF-NH2 (SEQ ID NO: 1054)		46

도면26e

JBT1448	Ac-SRYKWF[CGMRDMKGFMSC]VWVKF-NH2 (SEQ ID NO: 1123)		47
JBT1449	Ac-SRYKWF[CGMRDMKGTTSC]VWVKF-NH2 (SEQ ID NO: 1013)		55
JBT1455	Ac-GRYKWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1014)		49
JBT1474	Ac-KRYKWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1016)		59
JBT1481	Ac-SRYKWF[CGMKDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1017)		55
JBT1483	Ac-SRYKWF[CGMRDKKGTMSC]VWVKF-NH2 (SEQ ID NO: 1057)		50
JBT1492	Ac-LRYKWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1018)		52
JBT1493	Ac-SLYKWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1060)		43
JBT1502	Ac-SRYKWF[CGMRDLKGTMSC]VWVKF-NH2 (SEQ ID NO: 1019)		46
JBT1506	Ac-SRYKWF[CGMRDMKGTLSC]VWVKF-NH2 (SEQ ID NO: 1064)		45
JBT1512	Ac-SRYKWF[CGMRDMKGTMSC]VWVKL-NH2 (SEQ ID NO: 1020)		44
JBT1541	Ac-SRYKWF[CGMRDMKGTMSC]VWVPF-NH2 (SEQ ID NO: 1023)		41
JBT1544	H-SRYKWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1024)		59
JBT1570	Ac-SRYKWF[CGMRDIKGTMSC]VWVKF-NH2 (SEQ ID NO: 1025)		41

도면27a

JBT0122 클래스			외인성 테나제 억제 분석	
펩티드	서열		EC50 (μM)	2.5μM에서 % 억제
JBT0122	Ac-SGYASFPLAVQLHVSKRSKEMALARLYYKTS-NH2 (SEQ ID NO: 2002)		6.70	7
JBT0126	비오틴-Tids-SGYASFPLAVQLHVSKRSKEMALARLYYKTS-NH2 (SEQ ID NO: 2498)		5.05	5
JBT0221	Ac-KKSGYASFPLAVQLHVSKRSKEMALARLYYKTSKK-NH2 (SEQ ID NO: 2003)		3.37	19
JBT0222	Ac-MKSRSLGLAYFAKHSSLEVLQTRKVAAPYY-NH2 (SEQ ID NO: 2127)			4
JBT0223	Ac-KMQLRVYASTAHSRYLLGSSLFPKYAEVKA-NH2 (SEQ ID NO: 2297)			4
JBT0224	Ac-KKSGYASFPLAVQLHVSKRSKEMALARLYYKK-NH2 (SEQ ID NO: 2298)		3.49	18
JBT0225	Ac-KKSGYASFPLAVQLHVSKRSKEMALARKK-NH2 (SEQ ID NO: 2128)			0
JBT0226	Ac-KKSGYASFPLAVQLHVSKRSKEMAKK-NH2 (SEQ ID NO: 2299)			0
JBT0227	Ac-KKSGYASFPLAVQLHVSKRSKKK-NH2 (SEQ ID NO: 2300)			5
JBT0228	Ac-KKASFPLAVQLHVSKRSKEMALARLYYKTSKK-NH2 (SEQ ID NO: 2016)		6.93	9
JBT0229	Ac-KKPLAVQLHVSKRSKEMALARLYYKTSKK-NH2 (SEQ ID NO: 2129)			0
JBT0230	Ac-KKVQLHVSKRSKEMALARLYYKTSKK-NH2 (SEQ ID NO: 2301)			0
JBT0231	Ac-KKHVSKRSKEMALARLYYKTSKK-NH2 (SEQ ID NO: 2302)			0
JBT0232	Ac-KKGYASFPLAVQLHVSKRSKEMKK-NH2 (SEQ ID NO: 2303)			2
JBT0233	Ac-KKYASFPLAVQLHVSKRSKEMAKK-NH2 (SEQ ID NO: 2304)			6
JBT0234	Ac-KKVQLHVSKRSKEMALARLYYKKK-NH2 (SEQ ID NO: 2305)			3
JBT0235	Ac-KKQLHVSKRSKEMALARLYYKTKK-NH2 (SEQ ID NO: 2306)			0
JBT0236	Ac-KKLHVSKRSKEMALARLYYKTSKK-NH2 (SEQ ID NO: 2307)			0
JBT0237	Ac-KKSGYASFPLAVQLHVSKRSKEKK-NH2 (SEQ ID NO: 2308)			2
JBT0359	Ac-ASFPLAVQLHVSKRSKEMA-NH2 (SEQ ID NO: 2309)			6
JBT0360	Ac-SFPLAVQLHVSKRSKEMA-NH2 (SEQ ID NO: 2310)			2

도면27b

JBT0361	Ac-FPLAVQLHVSKRSKEMA-NH2 (SEQ ID NO: 2311)		9
JBT0362	Ac-ASFPLAVQLHVSKRSKEM-NH2 (SEQ ID NO: 2312)		6
JBT0363	Ac-ASFPLAVQLHVSKRSKE-NH2 (SEQ ID NO: 2313)		9
JBT0364	Ac-ASFPLAVQLHVSKRSKEMAL-NH2 (SEQ ID NO: 2314)		12
JBT0365	Ac-ASFPLAVQLHVSKRSKEMALA-NH2 (SEQ ID NO: 2315)		9
JBT0366	Ac-ASFPLAVQLHVSKRSKEMALAR-NH2 (SEQ ID NO: 2316)		11
JBT0367	Ac-ASFPLAVQLHVSKRSKEMALARL-NH2 (SEQ ID NO: 2317)		10
JBT0368	Ac-ASFPLAVQLHVSKRSKEMALARLY-NH2 (SEQ ID NO: 2130)		8
JBT0369	Ac-ASFPLAVQLHVSKRSKEMALARLYY-NH2 (SEQ ID NO: 2017)		9
JBT0370	Ac-YASFPLAVQLHVSKRSKEMA-NH2 (SEQ ID NO: 2318)		0
JBT0371	Ac-GYASFPLAVQLHVSKRSKEMA-NH2 (SEQ ID NO: 2319)		5
JBT0660	Ac-AGYASFPLAVQLHVSKRSKEMALARLYYKTS-NH2 (SEQ ID NO: 2004)		0
JBT0661	Ac-SAYASFPLAVQLHVSKRSKEMALARLYYKTS-NH2 (SEQ ID NO: 2005)		3
JBT0662	Ac-SGAASFPLAVQLHVSKRSKEMALARLYYKTS-NH2 (SEQ ID NO: 2131)		0
JBT0664	Ac-SGYAAFPLAVQLHVSKRSKEMALARLYYKTS-NH2 (SEQ ID NO: 2006)		3
JBT0665	Ac-SGYASAPLAVQLHVSKRSKEMALARLYYKTS-NH2 (SEQ ID NO: 2132)		0
JBT0666	Ac-SGYASFALAVQLHVSKRSKEMALARLYYKTS-NH2 (SEQ ID NO: 2001)		5
JBT0667	Ac-SGYASFPAAVQLHVSKRSKEMALARLYYKTS-NH2 (SEQ ID NO: 2018)		0
JBT0669	Ac-SGYASFPLAAQLHVSKRSKEMALARLYYKTS-NH2 (SEQ ID NO: 2133)		0
JBT0670	Ac-SGYASFPLAVALHVSKRSKEMALARLYYKTS-NH2 (SEQ ID NO: 2007)		2
JBT0671	Ac-SGYASFPLAVQAHVSKRSKEMALARLYYKTS-NH2 (SEQ ID NO: 2019)		7
JBT0672	Ac-SGYASFPLAVQLAVSKRSKEMALARLYYKTS-NH2 (SEQ ID NO: 2134)		3
JBT0673	Ac-SGYASFPLAVQLHASKRSKEMALARLYYKTS-NH2 (SEQ ID NO: 2135)		5
JBT0674	Ac-SGYASFPLAVQLHVAKRSKEMALARLYYKTS-NH2 (SEQ ID NO: 2008)		5
JBT0675	Ac-SGYASFPLAVQLHVSARSKEMALARLYYKTS-NH2 (SEQ ID NO: 2136)		7
JBT0676	Ac-SGYASFPLAVQLHVSKASKEMALARLYYKTS-NH2 (SEQ ID NO: 2137)		1
JBT0677	Ac-SGYASFPLAVQLHVSKRAKEMALARLYYKTS-NH2 (SEQ ID NO: 2009)		2
JBT0678	Ac-SGYASFPLAVQLHVSKRSAEMALARLYYKTS-NH2 (SEQ ID NO: 2010)		2
JBT0679	Ac-SGYASFPLAVQLHVSKRSKAMALARLYYKTS-NH2 (SEQ ID NO: 2020)		3

도면27c

JBT0680	Ac-SGYASFPLAVQLHVSKRSKEAALARLYYKTS-NH2 (SEQ ID NO: 2138)		3
JBT0682	Ac-SGYASFPLAVQLHVSKRSKEMAAARLYYKTS-NH2 (SEQ ID NO: 2139)		0
JBT0684	Ac-SGYASFPLAVQLHVSKRSKEMALAALYYKTS-NH2 (SEQ ID NO: 2011)		2
JBT0685	Ac-SGYASFPLAVQLHVSKRSKEMALARAYYKTS-NH2 (SEQ ID NO: 2021)		1
JBT0686	Ac-SGYASFPLAVQLHVSKRSKEMALARLAYKTS-NH2 (SEQ ID NO: 2140)		1
JBT0687	Ac-SGYASFPLAVQLHVSKRSKEMALARLYAKTS-NH2 (SEQ ID NO: 2141)		0
JBT0688	Ac-SGYASFPLAVQLHVSKRSKEMALARLYYATS-NH2 (SEQ ID NO: 2012)		2
JBT0689	Ac-SGYASFPLAVQLHVSKRSKEMALARLYYKAS-NH2 (SEQ ID NO: 2013)		2
JBT0690	Ac-SGYASFPLAVQLHVSKRSKEMALARLYYKTA-NH2 (SEQ ID NO: 2014)		3
JBT1579	Ac-GYASFPLAVQLHVAKRSKEMA-NH2 (SEQ ID NO: 2015)		5
JBT1580	Ac-GYASFALSVQLHVSKRSKEMA-NH2 (SEQ ID NO: 2320)		6
JBT1581	Ac-GYASFALAVQLHVAKRSKEMA-NH2 (SEQ ID NO: 2321)		13
JBT1582	Ac-GYASFPLAVQLHVMKRSKEMA-NH2 (SEQ ID NO: 2022)		7
JBT1583	Ac-GYASFALAVQLHVMKRSKEMA-NH2 (SEQ ID NO: 2322)		12
JBT1602	Ac-LAVQLHVSKRSKEMALARL-NH2 (SEQ ID NO: 2326)		0

도면28a

JBT0047 클래스								
			트롬빈 생성 분석					
펩티드	서열	10μM 펩티드에서 FVIII-억제된 혈장에서 FEIBA-등가 활성 [mU/mL]	1.1μM 펩티드에서 FVIII-억제된 혈장에서 FEIBA-등가 활성 [mU/mL]	**EC_{50} (μM), FVIII-억제된 혈장**	10μM 펩티드에서 FVIII 결여 혈장에서 % FVIII-등가 활성	1.1μM 펩티드에서 FVIII 결여 혈장에서 % FVIII-등가 활성		
JBT0047	Ac-SGVGRLQVAFQSKKNVFVFGYFERLRAKLTS-NH2 (SEQ ID NO: 253)	156	87	0.89	24.6	20.0		
JBT0131	비오틴-Tds-AFQSKKNVFVFGYFERLRAK-NH2 (SEQ ID NO: 964)	106			4.5			
JBT0132	비오틴-Tds-FQSKKNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 965)	123			5.3			
JBT0133	비오틴-Tds-QSKKNVFVFGYFERLRAKLT-NH2 (SEQ ID NO: 966)	28			6.7			
JBT0134	비오틴-Tds-QSKKNVFVFGYFERLRAK-NH2 (SEQ ID NO: 967)	11						
JBT0155	Ac-KKSGVGRLQVAFQSKKNVFVFGYFERLRAKLTSKK-NH2 (SEQ ID NO: 8)	49						
JBT0158	Ac-KKSGVGRLQVAFQSKKNVFVFGYFERLRAKKK-NH2 (SEQ ID NO: 9)	30						
JBT0162	Ac-KKGRLQVAFQSKKNVFVFGYFERLRAKLTSKK-NH2 (SEQ ID NO: 10)	54						
JBT0163	Ac-KKQVAFQSKKNVFVFGYFERLRAKLTSKK-NH2 (SEQ ID NO: 11)	69						
JBT0164	Ac-KKFQSKKNVFVFGYFERLRAKLTSKK-NH2 (SEQ ID NO: 12)	39						
JBT0169	Ac-KKAFQSKKNVFVFGYFERLRAKKK-NH2 (SEQ ID NO: 254)	21						

도면28b

JBT0170	Ac-KKIFQSKKNVFVFGYFERLRAKLKK-NH2 (SEQ ID NO: 13)	68				
JBT0171	Ac-KKQSKKNVFVFGYFERLRAKLTKK -NH2 (SEQ ID NO: 255)	33				
JBT0174	Ac-KKAFQSKKNVFVFGYFERLRAKLKK-NH2 (SEQ ID NO: 14)	49				
JBT0175	Ac-KKAFQSKKNVFVFGYFERLRAKLTKK-NH2 (SEQ ID NO: 182)	49				
JBT0293	Ac-FQSKKNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 256)	106	34	1.60	7.1	
JBT0294	Ac-YQSKKNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 257)	122			8.2	
JBT0296	Ac-FQNKKNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 407)	79				
JBT0297	Ac-FQSKNNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 183)	147			11.3	
JBT0298	Ac-FQSKQNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 747)	109				
JBT0299	Ac-FQSKKNVFAFGYFERLRAKL-NH2 (SEQ ID NO: 408)	63				
JBT0300	Ac-FQSKKNVFSFGYFERLRAKL-NH2 (SEQ ID NO: 409)	40				
JBT0301	Ac-FQSKKNVFTFGYFERLRAKL-NH2 (SEQ ID NO: 410)	49				
JBT0302	Ac-FQSKKNVFVAGYFERLRAKL-NH2 (SEQ ID NO: 258)	220			18.5	
JBT0303	Ac-FQSKKNVFVDGYFERLRAKL-NH2 (SEQ ID NO: 184)	220	126	0.85	21.8	
JBT0304	Ac-FQSKKNVFVLGYFERLRAKL-NH2 (SEQ ID NO: 259)	138				
JBT0305	Ac-FQSKKNVFVQGYFERLRAKL-NH2 (SEQ ID NO: 260)	207	113		20.5	
JBT0306	Ac-FQSKKNVFVSGYFERLRAKL-NH2 (SEQ ID NO: 185)	247	113		17.4	
JBT0307	Ac-FQSKKNVFVYGYFERLRAKL-NH2 (SEQ ID NO: 261)	182	81		16.8	
JBT0308	Ac-FQSKKNVFVFGYKERLRAKL-NH2 (SEQ ID NO: 411)	133				
JBT0309	Ac-FQSKKNVFVFGYYERLRAKL-NH2 (SEQ ID NO: 412)	123				
JBT0310	Ac-FQSKKNVFVFGYFDRLRAKL-NH2 (SEQ ID NO: 262)	163	50			
JBT0311	Ac-FQSKKNVFVFGYFERLRAKN-NH2 (SEQ ID NO: 748)	27				
JBT0335	Ac-FQSKKNVFVFGYFERLRAK-NH2 (SEQ ID NO: 749)	28				
JBT0336	Ac-FQSKNNVFVAGYFDRLRAKL-OH (SEQ ID NO: 263)	186	62			
JBT0337	Ac-FQSKNNVFVDGYFDRLRAKL-NH2 (SEQ ID NO: 16)	219	144			
JBT0338	Ac-FQSKNNVFVQGYFDRLRAKL-NH2 (SEQ ID NO: 17)	197	133			
JBT0339	Ac-FQSKNNVFVSGYFDRLRAKL-NH2 (SEQ ID NO: 18)	230	136			
JBT0340	Ac-FQSKNNVFVYGYFDRLRAKL-NH2 (SEQ ID NO: 186)	197	122			
JBT0341	Ac-FQSKNNVFVFGYFDRLRAKL-NH2 (SEQ ID NO: 187)	193	100			

도면28c

JBT0342	Ac-FQSKNNVFVDGYFERLRAKL-NH2 (SEQ ID NO: 19)	244	178		29.7	28.1
JBT0343	Ac-FQSKKNVFVDGYFDRLRAKL-NH2 (SEQ ID NO: 188)	239	126			
JBT0374	Ac-FQSKDNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 20)	216	128			
JBT0375	Ac-FQSKGNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 190)	180	140	0.47	22.9	22.9
JBT0376	Ac-FQSKKNAFVFGYFERLRAKL-NH2 (SEQ ID NO: 414)	101	22			
JBT0377	Ac-FQSKKNQFVFGYFERLRAKL-NH2 (SEQ ID NO: 264)	180	75			
JBT0378	Ac-FQSKKNVFVEGYFERLRAKL-NH2 (SEQ ID NO: 21)	245	148		30.7	21.2
JBT0379	Ac-FQSKKNVFVTGYFERLRAKL-NH2 (SEQ ID NO: 22)	226	123			
JBT0380	Ac-FQSKKNVFVWGYFERLRAKL-NH2 (SEQ ID NO: 191)	199	102			
JBT0381	Ac-FQSPKNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 265)	173	76			
JBT0386	Ac-FQSKKNPFVFGYFERLRAKL-NH2 (SEQ ID NO: 415)	85				
JBT0388	Ac-FQSKKNVHVFGYFERLRAKL-NH2 (SEQ ID NO: 192)	185	82			
JBT0389	Ac-FQSKKNVWVFGYFERLRAKL-NH2 (SEQ ID NO: 673)	34				
JBT0390	Ac-FQSKKNVFQFGYFERLRAKL-NH2 (SEQ ID NO: 674)	28				
JBT0391	Ac-FQSKKNVFVGGYFERLRAKL-NH2 (SEQ ID NO: 266)	178	62			
JBT0392	Ac-FQSKKNVFVHGYFERLRAKL-NH2 (SEQ ID NO: 23)	228	112			
JBT0393	Ac-FQSKKNVFVKGYFERLRAKL-NH2 (SEQ ID NO: 193)	268	161		38.8	30.1
JBT0394	Ac-FQSKKNVFVMGYFERLRAKL-NH2 (SEQ ID NO: 24)	115	43			
JBT0395	Ac-FQSKKNVFVNGYFERLRAKL-NH2 (SEQ ID NO: 25)	235	107			
JBT0396	Ac-FQSKKNVFVPGYFERLRAKL-NH2 (SEQ ID NO: 194)	196	85			
JBT0397	Ac-FQSKKNVFVRGYFERLRAKL-NH2 (SEQ ID NO: 195)	240	128			
JBT0402	비오틴-Tds-FQSKNNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 973)	185	159			
JBT0403	비오틴-Tds-FQSKKNVFVDGYFERLRAKL-NH2 (SEQ ID NO: 972)	253	188			
JBT0404	비오틴-Tds-FQSKKNVFVFGYFDRLRAKL-NH2 (SEQ ID NO: 974)	115	52			
JBT0405	비오틴-FQSKKNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 975)	142	152			
JBT0406	Ac-Tds-FQSKKNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 268)	114	63			
JBT0471	Ac-FQSKGNVFVTGYFERLRAKL-NH2 (SEQ ID NO: 26)	193	164		42.5	34.7
JBT0472	Ac-FQSKGNVFVNGYFERLRAKL-NH2 (SEQ ID NO: 27)	197	159			
JBT0473	Ac-FQSKGNVFVHGYFERLRAKL-NH2 (SEQ ID NO: 28)	188	145			

도면28d

JBT0474	Ac-FQSKGNVFVKGYFERLRAKL-NH2 (SEQ ID NO: 29)	200	191		50.5	45.2
JBT0475	Ac-FQSKGNVFVEGYFERLRAKL-NH2 (SEQ ID NO: 30)	202	165			
JBT0476	Ac-FQSKGNVFVDGYFDRLRAKL-NH2 (SEQ ID NO: 31)	202	164		43.2	41.5
JBT0477	Ac-FQSKGNVFVDGYFERLRAKL-NH2 (SEQ ID NO: 32)	231	194	0.26	47.2	41.3
JBT0478	Ac-FQSKDNVFVTGYFERLRAKL-NH2 (SEQ ID NO: 33)	161	104			
JBT0479	Ac-FQSKDNVFVNGYFERLRAKL-NH2 (SEQ ID NO: 34)	161	105			
JBT0480	Ac-FQSKDNVFVHGYFERLRAKL-NH2 (SEQ ID NO: 35)	180	125			
JBT0481	Ac-FQSKDNVFVKGYFERLRAKL-NH2 (SEQ ID NO: 36)	168	124			
JBT0482	Ac-FQSKDNVFVEGYFERLRAKL-NH2 (SEQ ID NO: 37)	183	133			
JBT0483	Ac-FQSKDNVFVDGYFERLRAKL-NH2 (SEQ ID NO: 38)	191	136			
JBT0484	Ac-FQSKDNVFVDGYFDRLRAKL-NH2 (SEQ ID NO: 976)	178	111			
JBT0485	Ac-FQSKNNVFVTGYFERLRAKL-NH2 (SEQ ID NO: 39)	186	150			
JBT0486	Ac-FQSKNNVFVNGYFERLRAKL-NH2 (SEQ ID NO: 40)	171	112			
JBT0487	Ac-FQSKNNVFVHGYFERLRAKL-NH2 (SEQ ID NO: 41)	178	138			
JBT0488	Ac-FQSKNNVFVKGYFERLRAKL-NH2 (SEQ ID NO: 42)	193	153			
JBT0489	Ac-FQSKNNVFVEGYFERLRAKL-NH2 (SEQ ID NO: 43)	185	148			
JBT0490	Ac-FQSKQNVFVTGYFERLRAKL-NH2 (SEQ ID NO: 44)	162	79			
JBT0491	Ac-FQSKQNVFVNGYFERLRAKL-NH2 (SEQ ID NO: 197)	169	96			
JBT0492	Ac-FQSKQNVFVHGYFERLRAKL-NH2 (SEQ ID NO: 198)	124	69			
JBT0493	Ac-FQSKQNVFVKGYFERLRAKL-NH2 (SEQ ID NO: 199)	151	92			
JBT0494	Ac-FQSKQNVFVDGYFERLRAKL-NH2 (SEQ ID NO: 45)	163	102			
JBT0495	Ac-FQSKQNVFVEGYFERLRAKL-NH2 (SEQ ID NO: 200)	156	93			
JBT0497	Ac-NmetPhe-QSKGNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 201)	165	106			
JBT0499	Ac-FQS-NmetLys-GNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 202)	192	129			
JBT0500	Ac-FQSK-NmetGly-NVFVFGYFERLRAKL-NH2 (SEQ ID NO: 46)	254	239	0.17		51.1
JBT0501	Ac-FQSKGN-NmetV-FVFGYFERLRAKL-NH2 (SEQ ID NO: 417)	95	21			
JBT0504	Ac-FQSKGNVFV-NmetPhe-GYFERLRAKL-NH2 (SEQ ID NO: 418)	62				
JBT0505	Ac-FQSKGNVFVF-NmetGly-YFERLRAKL-NH2 (SEQ ID NO: 269)	204	90			
JBT0508	Ac-FQSKGNVFVFGYF-NmetGlu-RLRAKL-NH2 (SEQ ID NO: 678)	82				

도면28e

JBT0514	Ac-FQSKGNVFVFGYFERLRAK-NmeLeu-NH2 (SEQ ID NO: 419)	69				
JBT0515	Ac-bHomoPhe-QSKGNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 420)	86	31			
JBT0517	Ac-FQ-bHomoSer-KGNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 421)	34				
JBT0518	Ac-FQS-bHomoLys-GNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 422)	38				
JBT0519	Ac-FQSK-bAla-NVFVFGYFERLRAKL-NH2 (SEQ ID NO: 270)	105	37			
JBT0520	Ac-FQSKG-bGln-VFVFGYFERLRAKL-NH2 (SEQ ID NO: 271)	100	42			
JBT0522	Ac-FQSKGNV-bHomoPhe-VFGYFERLRAKL-NH2 (SEQ ID NO: 681)	40				
JBT0524	Ac-FQSKGNVFV-bHomoPhe-GYFERLRAKL-NH2 (SEQ ID NO: 682)	36				
JBT0527	Ac-FQSKGNVFVFGY-bHomoPhe-ERLRAKL-NH2 (SEQ ID NO: 683)	44				
JBT0528	Ac-FQSKGNVFVFGYF-bE-RLRAKL-NH2 (SEQ ID NO: 272)	151	100			
JBT0531	Ac-FQSKGNVFVFGYFERL-bHomoArg-AKL-NH2 (SEQ ID NO: 203)	170	99			
JBT0532	Ac-FQSKGNVFVFGYFERLR-bAla-KL-NH2 (SEQ ID NO: 423)	118	53			
JBT0533	Ac-FQSKGNVFVFGYFERLRA-bHomoK-L-NH2 (SEQ ID NO: 424)	97	29			
JBT0534	Ac-FQSKGNVFVFGYFERLRAK-Btl-NH2 (SEQ ID NO: 204)	156	130			
JBT0535	Ac-FQSKGNVFVFGYFE-Cit-LRAKL-NH2 (SEQ ID NO: 685)	97	28			
JBT0536	Ac-FQSKGNVFVFGYFERL-Cit-AKL-NH2 (SEQ ID NO: 273)	196	133			
JBT0538	Ac-FQSKGNVFVFGYFERL-Nle-AKL-NH2 (SEQ ID NO: 425)	118	59			
JBT0564	Ac-FQSKKNVFVFGYFKRLRAKL-NH2 (SEQ ID NO: 205)	120	61			
JBT0613	Ac-FQSKGNVFVFGYFERLRAKL-OH (SEQ ID NO: 283)	156	55			
JBT0614	NH2-FQSKGNVFVFGYFERLRAKL-OH (SEQ ID NO: 720)	54				
JBT0615	NH2-FQSKGNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 284)	105	33			
JBT0616	NH2-GSFQSKKNVFVDGYFERLRAKL-OH (SEQ ID NO: 285)	162	77			
JBT0616	NH2-GSFQSKKNVFVDGYFERLRAKL-OH (SEQ ID NO: 285)	147	29			
JBT0651	Ac-FQSKGNVHVKGYFERLRAKL-NH2 (SEQ ID NO: 48)	250	216			
JBT0652	Ac-FQSKGNVHVDGYFERLRAKL-NH2 (SEQ ID NO: 49)		207			
JBT0653	Ac-FQSPGNVHVKGYFERLRAKL-NH2 (SEQ ID NO: 50)		237			
JBT0654	Ac-FQSPGNVHVDGYFERLRAKL-NH2 (SEQ ID NO: 51)		214			
JBT0655	Ac-FQSKGNIFVFGYFERLRAKL-NH2 (SEQ ID NO: 52)	150	120			
JBT0656	Ac-FQSKGNLFVFGYFERLRAKL-NH2 (SEQ ID NO: 286)	86	42			

도면28f

JBT0657	Ac-FQSKGNVFHFGYFERLRAKL-NH2 (SEQ ID NO: 287)	92	47			
JBT0663	Ac-FQSKaNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 53)		180			
JBT0668	Ac-FQSKaNVFVTGYFARLRAKL-NH2 (SEQ ID NO: 54)		167			
JBT0681	Ac-FQSK-Nmg-AVFVFGYFARLRAKL-NH2 (SEQ ID NO: 206)		158			
JBT0683	Ac-FQSK-Nmg-AVFVDGYFARLRAKL-NH2 (SEQ ID NO: 55)		228			
JBT0696	Ac-FQSKKAVFVFGYFERLRAKL-NH2 (SEQ ID NO: 288)	64	60			
JBT0697	Ac-FQSKGNVFVDGYFERL-Dap-AKL-NH2 (SEQ ID NO: 56)		188			
JBT0699	Ac-FQSKGNVFVDGYFERL-Orn-AKL-NH2 (SEQ ID NO: 57)		207			
JBT0700	Ac-FQSKGNVFVDGYFERL-Nva-AKL-NH2 (SEQ ID NO: 58)		218			
JBT0704	Ac-FQSKKNVFVFGYFARLRAKL-NH2 (SEQ ID NO: 289)	96	35			
JBT0708	Ac-FQSKaNVFVAGYFERLRAKL-NH2 (SEQ ID NO: 59)		200			
JBT0714	Ac-FQSKaAVFVDGYFARLRAKL-NH2 (SEQ ID NO: 60)		209			
JBT0717	Ac-FQSK-Nmg-NVFVDGYFERLRAKL-NH2 (SEQ ID NO: 61)	271	241	0.11		42.1
JBT0720	Ac-FQSK-Nmg-NVFVTGYFARLRAKL-NH2 (SEQ ID NO: 62)		271			
JBT0732	Ac-FQSKGNVFVDGYFERL-Hci-AKL-NH2 (SEQ ID NO: 63)		258			
JBT0733	Ac-FQSKGNVFVDGYFERL-Har-AKL-NH2 (SEQ ID NO: 64)		213			
JBT0739	Ac-FQSKGNVFVDGYFERL-Opa-AKL-NH2 (SEQ ID NO: 65)		193			
JBT0740	Ac-FQSKGNVFVDGYFERL-Aib-AKL-NH2 (SEQ ID NO: 66)	236	184	0.29		33.3
JBT0754	Ac-FQSK-Nmg-AVFVTGYFARLRAKL-NH2 (SEQ ID NO: 67)		224			
JBT0759	Ac-FQSKkNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 207)	159	131			
JBT0765	Ac-FQSKGNVFVDGYFERL-Eew-AKL-NH2 (SEQ ID NO: 68)		205			
JBT0775	Ac-FQSKGNVFVTGYFDRLRAKL-NH2 (SEQ ID NO: 69)		157			
JBT0778	Ac-FQSKGNVFVKGYFDRLRAKL-NH2 (SEQ ID NO: 209)		176			
JBT0779	Ac-FQSKGNVFVEGYFDRLRAKL-NH2 (SEQ ID NO: 210)		145			
JBT0780	Ac-FQSK-Nmg-NVFVFGYFARLRAKL-NH2 (SEQ ID NO: 70)		227			
JBT0781	Ac-FQSKGNVFVDGYFKRLRAKL-NH2 (SEQ ID NO: 211)		156			
JBT0789	Ac-FQSK-Nmg-NVFVDGYFERL-Nle-AKL-NH2 (SEQ ID NO: 71)	266	230	0.26		
JBT0806	Ac-FQSK-Nmg-NVFVAGYFARLRAKL-NH2 (SEQ ID NO: 74)		281			
JBT0837	Ac-FQSK-Nmg-NVFVTGYFERL-Nle-AKL-NH2 (SEQ ID NO: 213)		259			

도면28g

JBT0844	Ac-FQSKaNVFVDGYFERLRAKL-NH2 (SEQ ID NO: 300)		195			
JBT0850	Ac-FQSKaAVFVAGYFARLRAKL-NH2 (SEQ ID NO: 302)		174			
JBT0854	Ac-FQSKaAVFVAGYFARL-Nle-AKL-NH2 (SEQ ID NO: 490)		34			
JBT0870	Ac-FQSKaAVFVTGYFARLRAKL-NH2 (SEQ ID NO: 214)		167			
JBT0886	Ac-FQSKaNVFVDGYFARLRAKL-NH2 (SEQ ID NO: 215)		186			
JBT0919	Ac-FQSKaNVFVTGYFERLRAKL-NH2 (SEQ ID NO: 79)		204			
JBT0931	Ac-FQSKGNVFVDGYFERL-Eag-AKL-NH2 (SEQ ID NO: 82)		172			
JBT0946	Ac-FQSKGNVFVDGYFERL-Dab-AKL-NH2 (SEQ ID NO: 85)		177			
JBT0950	Ac-FQSKaNVFVFGYFARLRAKL-NH2 (SEQ ID NO: 217)		115			
JBT0973	Ac-FQSKGNVFVDGYFERL-Cha-AKL-NH2 (SEQ ID NO: 92)		193			
JBT1006	Ac-FQSKGNVFVDGYFERL-Hle-AKL-NH2 (SEQ ID NO: 96)		210			
JBT1035	Ac-FQSK-Nmg-AVFVAGYFARL-Nle-AKL-NH2 (SEQ ID NO: 218)		172			
JBT1037	Ac-FQSKGNVFVDGYFERL-Nle-AKL-NH2 (SEQ ID NO: 104)		192			
JBT1043	Ac-FQSKaNVFVDGYFERL-Nle-AKL-NH2 (SEQ ID NO: 106)		203			
JBT1082	Ac-FQSKaAVFVFGYFARLRAKL-NH2 (SEQ ID NO: 565)		90			
JBT1084	Ac-FQSK-Nmg-AVFVAGYFARLRAKL-NH2 (SEQ ID NO: 109)		192			
JBT1122	Ac-FQSK-Nmg-NVFVDGYFARL-Nle-AKL-NH2 (SEQ ID NO: 113)		353			
JBT1133	Ac-FQSKkAVFVDGYFARLRAKL-NH2 (SEQ ID NO: 115)	233	236			
JBT1134	Ac-FQSKGAVFVDGYFARLRAKL-NH2 (SEQ ID NO: 116)	240	204			
JBT1135	Ac-FQSKDAVFVDGYFARLRAKL-NH2 (SEQ ID NO: 221)	227	146			
JBT1136	Ac-FQSKdAVFVDGYFARLRAKL-NH2 (SEQ ID NO: 117)	283	227			
JBT1137	Ac-FQSKkAVFVAGYFARLRAKL-NH2 (SEQ ID NO: 118)	218	231			
JBT1138	Ac-FQSKGAVFVAGYFARLRAKL-NH2 (SEQ ID NO: 222)	185	161			
JBT1139	Ac-FQSKDAVFVAGYFARLRAKL-NH2 (SEQ ID NO: 223)	205	146			
JBT1140	Ac-FQSKdAVFVAGYFARLRAKL-NH2 (SEQ ID NO: 119)	203	124			
JBT1141	Ac-FQSKkAVFVKGYFARLRAKL-NH2 (SEQ ID NO: 120)	223	217	0.12		
JBT1142	Ac-FQSKGAVFVKGYFARLRAKL-NH2 (SEQ ID NO: 224)	299	233			
JBT1143	Ac-FQSKDAVFVKGYFARLRAKL-NH2 (SEQ ID NO: 225)	214	170			
JBT1144	Ac-FQSKdAVFVKGYFARLRAKL-NH2 (SEQ ID NO: 121)	200	164	0.21		

도면28h

JBT1145	Ac-FQSKkAVFVTGYFARLRAKL-NH2 (SEQ ID NO: 122)	274	243			
JBT1146	Ac-FQSKGAVFVTGYFARLRAKL-NH2 (SEQ ID NO: 226)	231	185			
JBT1147	Ac-FQSKDAVFVTGYFARLRAKL-NH2 (SEQ ID NO: 227)	230	146			
JBT1148	Ac-FQSKdAVFVTGYFARLRAKL-NH2 (SEQ ID NO: 123)	231	185			
JBT1151	Ac-FQSKKNVFVFGYFERLRAKD-NH2 (SEQ ID NO: 937)	27				
JBT1153	Ac-FQSKKNVFVFGYFERLGAKL-NH2 (SEQ ID NO: 705)	125	45			
JBT1155	Ac-FQSK-Nmg-NVFVTGYFERLRAKL-NH2 (SEQ ID NO: 125)		258			
JBT1156	Ac-FQSKaNVFVDGYFARL-Nle-AKL-NH2 (SEQ ID NO: 126)		173			
JBT1157	Ac-FQSKaNVFVAGYFARLRAKL-NH2 (SEQ ID NO: 127)		178			
JBT1584	Ac-FQSK-Nmg-NVFVDGYFERL-Aib-AKL-NH2 (SEQ ID NO: 164)	330	301	0.16		48.6
JBT1585	Ac-FQSK-Nmg-NVFVTGYFERL-Aib-AKL-NH2 (SEQ ID NO: 165)	300	269	0.13		
JBT1587	Ac-FQSKGNVFVDGYFERL-Aib-AKLC-NH2 (SEQ ID NO: 167)		189	0.32		
JBT1590	Ac-FQSKGNVFV[CGYFERL-Aib-AKLC]-NH2 (SEQ ID NO: 401)	35				
JBT1591	Ac-FQSKGNVFVDGYF[CRL-Aib-AKLC]-NH2 (SEQ ID NO: 168)	148	75			
JBT1592	Ac-[CFQSKGNVFVDGYFERLC]AKL-NH2 (SEQ ID NO: 402)	138	46			
JBT1593	Ac-FQSK[CNVFVDGYFERLC]AKL-NH2 (SEQ ID NO: 670)	110	39			
JBT1594	Ac-FQSKGNVFV[CGYFERLC]AKL-NH2 (SEQ ID NO: 671)	35				
JBT1595	Ac-[CFQSKGNVFVC]GYFERL-Aib-AKL-NH2 (SEQ ID NO: 403)	82	22			
JBT1596	Ac-[CFQSKGC]VFVEGYFERL-Aib-AKL-NH2 (SEQ ID NO: 404)	116	36			
JBT1853	PEG(40kD)-FQSKGNVFVDGYFERL-Aib-AKL-NH2 (SEQ ID NO: 175)		605			
JBT1855	Ac-FQSKGNVFVDGYFERL-Aib-AKLC(PEG40kD)-NH2 (SEQ ID NO: 252)		642			

도면29a

JBT0120 클래스			트롬빈 생성 분석					
펩티드	서열		10μM 펩티드에서 FVIII-억제된 혈장에서 FEIBA-등가 활성 [**mU/mL**]	1.1μM 펩티드에서 FVIII-억제된 혈장에서 FEIBA-등가 활성 [**mU/mL**]	**EC_{50} (μM), FVIII-**억제된 혈장	10μM 펩티드에서 FVIII 결여 혈장에서 % FVIII-등가 활성	1.1μM 펩티드에서 FVIII 결여 혈장에서 % FVIII-등가 활성
JBT0120	Ac-SGASRYKWF[CGMRDMKGTMSC]VWVKFRYDTS-NH2 (SEQ ID NO: 1047)		269	95	2.78	28.8	8.6
JBT0247	Ac-SGASRYKWF[CGMRDMKGTMSCVWVKFRYDTS-NH2 (SEQ ID NO: 1213)		273				
JBT0248	Ac-KKSSGASRYKWF[CGMRDMKGTMSC]VWVKFRYDTSKK-NH2 (SEQ ID NO: 1001)		164				
JBT0319	Ac-SGASRYKWF[CGMRDMKGTMSC]VWVKFRY-NH2 (SEQ ID NO: 1075)		383	187		29.3	
JBT0320	Ac-SGASRYKWF[CGMRDMKGTMSC]VWVK-NH2 (SEQ ID NO: 1103)		153	21			
JBT0323	Ac-SRYKWF[CGMRDMKGTMSC]VWVKFRYDTS-NH2 (SEQ ID NO: 1076)		355	142		31.4	
JBT0324	Ac-KWF[CGMRDMKGTMSC]VWVKFRYDTS-NH2 (SEQ ID NO: 1155)		91				
JBT0329	Ac-KWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1156)		70			6.6	
JBT0333	Ac-KWFCGMRDMKGTMSCVWVKF-NH2 (SEQ ID NO: 1207)		40				
JBT0333	Ac-KWFCGMRDMKGTMSCVWVKF-NH2 (SEQ ID NO: 1207)		114				
JBT0411	Ac-SGASRYKWF[CG-Nle-RD-Nle-KGT-Nle-SC]VWVKFRYDTS-NH2 (SEQ ID NO: 1104)		97				

도면29b

JBT0412	Ac-KWF[CG-Nle-RD-Nle-KGT-Nle-SC]VWVKF-NH2 (SEQ ID NO: 1209)	46					
JBT0415	Ac-SRYKWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1003)	291	182	0.57	47.2	36.5	
JBT0416	Ac-SRYKWF[CG-Nle-RD-Nle-KGT-Nle-SC]VWVKF-NH2 (SEQ ID NO: 1077)	256	95		36.6	22.3	
JBT0437	Ac-ARYKWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1048)	362	225				
JBT0438	Ac-SAYKWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1078)	300	137				
JBT0439	Ac-SRAKWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1105)	266	88				
JBT0440	Ac-SRYAWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1106)	175	33				
JBT0441	Ac-SRYKAF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1230)	18	5				
JBT0442	Ac-SRYKWA[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1231)	53	8				
JBT0444	Ac-SRYKWF[CAMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1004)	331	229	0.42	53.4	45.7	
JBT0445	Ac-SRYKWF[CGARDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1107)	157	40				
JBT0446	Ac-SRYKWF[CGMADMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1079)	287	140				
JBT0447	Ac-SRYKWF[CGMRAMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1158)	101					
JBT0448	Ac-SRYKWF[CGMRDAKGTMSC]VWVKF-NH2 (SEQ ID NO: 1108)	324	138				
JBT0449	Ac-SRYKWF[CGMRDMAGTMSC]VWVKF-NH2 (SEQ ID NO: 1080)	362	217		54.1	34.2	
JBT0450	Ac-SRYKWF[CGMRDMKATMSC]VWVKF-NH2 (SEQ ID NO: 1159)	232	68				
JBT0451	Ac-SRYKWF[CGMRDMKGAMSC]VWVKF-NH2 (SEQ ID NO: 1081)	339	189				
JBT0452	Ac-SRYKWF[CGMRDMKGTASC]VWVKF-NH2 (SEQ ID NO: 1109)	265	119				
JBT0453	Ac-SRYKWF[CGMRDMKGTMAC]VWVKF-NH2 (SEQ ID NO: 1110)	282	111				
JBT0455	Ac-SRYKWF[CGMRDMKGTMSC]AWVKF-NH2 (SEQ ID NO: 1049)	316	203				
JBT0456	Ac-SRYKWF[CGMRDMKGTMSC]VAVKF-NH2 (SEQ ID NO: 1232)	16					
JBT0457	Ac-SRYKWF[CGMRDMKGTMSC]VWAKF-NH2 (SEQ ID NO: 1161)	76					
JBT0458	Ac-SRYKWF[CGMRDMKGTMSC]VWVAF-NH2 (SEQ ID NO: 1082)	292	161				
JBT0459	Ac-SRYKWF[CGMRDMKGTMSC]VWVKA-NH2 (SEQ ID NO: 1083)	266	137				
JBT0460	Ac-RYKWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1050)	262	138				
JBT0461	Ac-YKWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1111)	197	47				
JBT0625	Ac-SRYKWF[CMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1244)	5	3				
JBT0626	Ac-SRYKWF[CGMRDKGTMSC]VWVKF-NH2 (SEQ ID NO: 1164)	81	10				

도면29c

JBT0627	Ac-SRYKWF[CGMRDMGTMSC]VWVKF-NH2 (SEQ ID NO: 1165)	62	15			
JBT0628	Ac-SRYKWF[CGMRDMKGMSC]VWVKF-NH2 (SEQ ID NO: 1166)	54	16			
JBT0631	Ac-SRYKWF[CGmRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1113)	171	60			
JBT0634	Ac-SRYKWF[CGMRDmKGTMSC]VWVKF-NH2 (SEQ ID NO: 1051)	311	156			
JBT0635	Ac-SRYKWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1114)	123				
JBT0641	Ac-SRYKWF[CPMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1247)	21				
JBT0642	Ac-SRYKWF[CGPRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1248)	32				
JBT0643	Ac-SRYKWF[CGMPDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1006)	289	192	0.63		
JBT0644	Ac-SRYKWF[CGMRPMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1172)	31				
JBT0645	Ac-SRYKWF[CGMRDPKGTMSC]VWVKF-NH2 (SEQ ID NO: 1084)		109			
JBT0646	Ac-SRYKWF[CGMRDMPGTMSC]VWVKF-NH2 (SEQ ID NO: 1173)	84				
JBT0648	Ac-SRYKWF[CGMRDMKGPMSC]VWVKF-NH2 (SEQ ID NO: 1174)	42				
JBT0649	Ac-SRYKWF[CGMRDMKGTPSC]VWVKF-NH2 (SEQ ID NO: 1175)	64				
JBT1416	Ac-DRYKWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1007)	253	102	1.38		
JBT1417	Ac-SDYKWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1116)	140	30	4.79		
JBT1418	Ac-SRDKWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1176)	67		3.15		
JBT1419	Ac-SRYDWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1117)	120		3.80		
JBT1426	Ac-SRYKWF[CGMRDMDGTMSC]VWVKF-NH2 (SEQ ID NO: 1008)	287	135	0.94		
JBT1436	Ac-FRYKWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1053)	228	72	2.54		
JBT1437	Ac-SFYKWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1010)	284	157	0.85		
JBT1438	Ac-SRFKWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1011)	218	81	1.63		
JBT1445	Ac-SRYKWF[CGMRDFKGTMSC]VWVKF-NH2 (SEQ ID NO: 1012)	213	89	1.75		
JBT1446	Ac-SRYKWF[CGMRDMFGTMSC]VWVKF-NH2 (SEQ ID NO: 1054)	169	64	1.53		
JBT1448	Ac-SRYKWF[CGMRDMKGFMSC]VWVKF-NH2 (SEQ ID NO: 1123)	184	34			
JBT1449	Ac-SRYKWF[CGMRDMKGTFSC]VWVKF-NH2 (SEQ ID NO: 1013)	276	116	1.45		
JBT1455	Ac-GRYKWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1014)	226	66	2.50		
JBT1465	Ac-SRYKWF[CGMRDMGGTMSC]VWVKF-NH2 (SEQ ID NO: 1015)	235	74	2.46		
JBT1474	Ac-KRYKWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1016)	275	136	1.06		
JBT1481	Ac-SRYKWF[CGMKDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1017)	303	123	1.48		

도면29d

JBT1483	Ac-SRYKWF[CGMRDKKGTMSC]VWVKF-NH2 (SEQ ID NO: 1057)	275	88			
JBT1492	Ac-LRYKWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1018)	239	100	1.55		
JBT1493	Ac-SLYKWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1060)	261	122	1.17		
JBT1502	Ac-SRYKWF[CGMRDLKGTMSC]VWVKF-NH2 (SEQ ID NO: 1019)	307	175	0.77		
JBT1503	Ac-SRYKWF[CGMRDMLGTMSC]VWVKF-NH2 (SEQ ID NO: 1063)	202	105	0.95		
JBT1506	Ac-SRYKWF[CGMRDMKGTLSC]VWVKF-NH2 (SEQ ID NO: 1064)	191	49	2.99		
JBT1512	Ac-SRYKWF[CGMRDMKGTMSC]VWVKL-NH2 (SEQ ID NO: 1020)	294	152	0.89		
JBT1523	Ac-SRYKWF[CGMRDMSGTMSC]VWVKF-NH2 (SEQ ID NO: 1022)	255	115	1.30		
JBT1541	Ac-SRYKWF[CGMRDMKGTMSC]VWVPF-NH2 (SEQ ID NO: 1023)	291	155	0.82		
JBT1543	Ac-SRYKWF[CGMRDMKGTMSC]VWVKF-OH (SEQ ID NO: 1098)	192	39	3.10		
JBT1544	H-SRYKWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1024)	235	98			
JBT1545	H-SRYKWF[CGMRDMKGTMSC]VWVKF-OH (SEQ ID NO: 1099)	152	21	7.92		
JBT1557	H-RYKWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 173)	208	91			
JBT1558	H-YKWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1149)	115	20			
JBT1559	Ac-SRYKWF[CGaRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1150)	131	42			
JBT1562	Ac-SRYKWF[CGkRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1193)	54				
JBT1567	Ac-SRYKWF[CGMRDdKGTMSC]VWVKF-NH2 (SEQ ID NO: 1101)	226	76			
JBT1570	Ac-SRYKWF[CGMRDfKGTMSC]VWVKF-NH2 (SEQ ID NO: 1025)	250	76			
JBT1574	Ac-SRYKWF[CGMRDMdGTMSC]VWVKF-NH2 (SEQ ID NO: 1153)	173	34			

도면30a

JBT0122 클래스			트롬빈 생성 분석					
펩티드	서열		10μM 펩티드에서 FVIII-억제된 혈장에서 FEIBA-등가 활성 [mU/mL]	1.1μM 펩티드에서 FVIII-억제된 혈장에서 FEIBA-등가 활성 [mU/mL]	EC_{50} (μM), FVIII-억제된 혈장	10μM 펩티드에서 FVIII 결여 혈장에서 % FVIII-등가 활성	1.1μM 펩티드에서 FVIII 결여 혈장에서 % FVIII-등가 활성	
JBT0122	AC-SGYASFPLAVQLHVSKRSKEMALARLYYKTS-NH2 (SEQ ID NO: 2002)		170	31		160		
JBT0221	Ac-KKSGYASFPLAVQLHVSKRSKEMALARLYYKTSKK-NH2 (SEQ ID NO: 2003)		206	150				
JBT0224	Ac-KKSGYASFPLAVQLHVSKRSKEMALARLYYKK-NH2 (SEQ ID NO: 2298)		152	58	1.10	162		
JBT0225	Ac-KKSGYASFPLAVQLHVSKRSKEMALARKK-NH2 (SEQ ID NO: 2128)		55					
JBT0367	Ac-ASFPLAVQLHVSKRSKEMALARL-NH2 (SEQ ID NO: 2317)		28					
JBT0368	Ac-ASFPLAVQLHVSKRSKEMALARLY-NH2 (SEQ ID NO: 2130)		36					
JBT0369	Ac-ASFPLAVQLHVSKRSKEMALARLYY-NH2 (SEQ ID NO: 2017)		68					
JBT0370	Ac-YASFPLAVQLHVSKRSKEMA-NH2 (SEQ ID NO: 2318)		39					
JBT0371	Ac-GYASFPLAVQLHVSKRSKEMA-NH2(SEQ ID NO: 2319)		25					
JBT0660	Ac-AGYASFPLAVQLHVSKRSKEMALARLYYKTS-NH2 (SEQ ID NO: 2004)		141	27				
JBT0661	Ac-SAYASFPLAVQLHVSKRSKEMALARLYYKTS-NH2 (SEQ ID NO:	215	49					

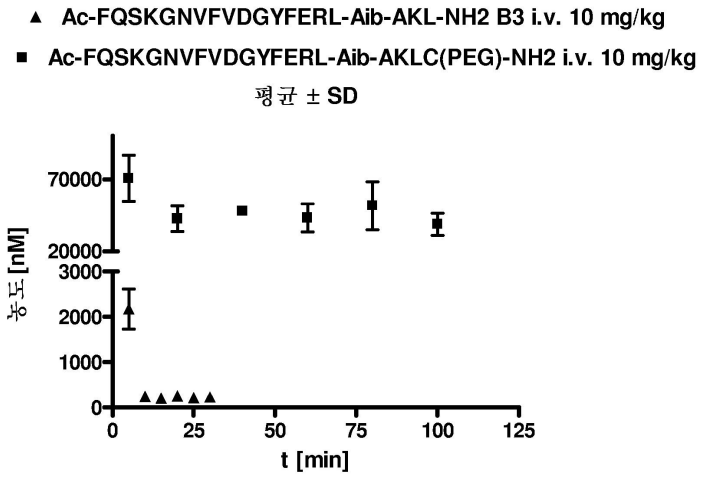
도면30b

	2005)					
JBT0662	Ac-SGAASFPLAVQLHVSKRSKEMALARLYYKTS-NH2 (SEQ ID NO: 2131)	43				
JBT0664	Ac-SGYAAFPLAVQLHVSKRSKEMALARLYYKTS-NH2 (SEQ ID NO: 2006)	178	26			
JBT0665	Ac-SGYASAPLAVQLHVSKRSKEMALARLYYKTS-NH2 (SEQ ID NO: 2132)	49				
JBT0666	Ac-SGYASFALAVQLHVSKRSKEMALARLYYKTS-NH2 (SEQ ID NO: 2001)	99	23			
JBT0667	Ac-SGYASFPAAVQLHVSKRSKEMALARLYYKTS-NH2 (SEQ ID NO: 2018)	95				
JBT0669	Ac-SGYASFPLAAQLHVSKRSKEMALARLYYKTS-NH2 (SEQ ID NO: 2133)	20				
JBT0670	Ac-SGYASFPLAVALHVSKRSKEMALARLYYKTS-NH2 (SEQ ID NO: 2007)	101				
JBT0671	Ac-SGYASFPLAVQAHVSKRSKEMALARLYYKTS-NH2 (SEQ ID NO: 2019)	120				
JBT0673	Ac-SGYASFPLAVQLHASKRSKEMALARLYYKTS-NH2 (SEQ ID NO: 2135)	39				
JBT0674	Ac-SGYASFPLAVQLHVAKRSKEMALARLYYKTS-NH2 (SEQ ID NO: 2008)	234	90			
JBT0675	Ac-SGYASFPLAVQLHVSARSKEMALARLYYKTS-NH2 (SEQ ID NO: 2136)	20				
JBT0677	Ac-SGYASFPLAVQLHVSKRAKEMALARLYYKTS-NH2 (SEQ ID NO: 2009)	178	37			
JBT0678	Ac-SGYASFPLAVQLHVSKRSAEMALARLYYKTS-NH2 (SEQ ID NO: 2010)	153	23			
JBT0679	Ac-SGYASFPLAVQLHVSKRSKAMALARLYYKTS-NH2 (SEQ ID NO: 2020)	20				
JBT0682	Ac-SGYASFPLAVQLHVSKRSKEMAAARLYYKTS-NH2 (SEQ ID NO:	133	27			

도면30c

	2139)					
JBT0684	Ac-SGYASFPLAVQLHVSKRSKEMALAALYYKTS-NH2 (SEQ ID NO: 2011)	159	28			
JBT0685	Ac-SGYASFPLAVQLHVSKRSKEMALARAYYKTS-NH2 (SEQ ID NO: 2021)	131	21			
JBT0686	Ac-SGYASFPLAVQLHVSKRSKEMALARLAYKTS-NH2 (SEQ ID NO: 2140)	109				
JBT0687	Ac-SGYASFPLAVQLHVSKRSKEMALARLYAKTS-NH2 (SEQ ID NO: 2141)	124				
JBT0688	Ac-SGYASFPLAVQLHVSKRSKEMALARLYYATS-NH2 (SEQ ID NO: 2012)	148	29			
JBT0689	Ac-SGYASFPLAVQLHVSKRSKEMALARLYYKAS-NH2 (SEQ ID NO: 2013)	184	40			
JBT0690	Ac-SGYASFPLAVQLHVSKRSKEMALARLYYKTA-NH2 (SEQ ID NO: 2014)	187	41			
JBT1579	Ac-GYASFPLAVQLHVAKRSKEMA-NH2 (SEQ ID NO: 2015)	66				
JBT1581	Ac-GYASFALAVQLHVAKRSKEMA-NH2 (SEQ ID NO: 2321)	67				
JBT1582	Ac-GYASFPLAVQLHVMKRSKEMA-NH2 (SEQ ID NO: 2022)	73				
JBT1583	Ac-GYASFALAVQLHVMKRSKEMA-NH2 (SEQ ID NO: 2322)	68				

도면31


▲ Ac-FQSKGNVFVDGYFERL-Aib-AKL-NH2 B3 i.v. 10 mg/kg
■ Ac-FQSKGNVFVDGYFERL-Aib-AKLC(PEG)-NH2 i.v. 10 mg/kg
평균 ± SD
농도 [nM]
70000
20000
3000
2000
1000
0
0
25
50
75
100
125
t [min]

도면32aa

서열 번호	서열	친화도 클래스	IC50 평균 [nM]	% 억제 (JBT-0477에 비 함)	샤물 번호
253	Ac-SGVGRLQVAFQSKKNVFVFGYFERLRAKLTS-NH2	C	115		JBT0047
8	Ac-KKSGVGRLQVAFQSKKNVFVFGYFERLRAKLTSKK-NH2	A	30		JBT0155
742	Ac-VVEKLTFVQLSFLNRRRFSQYAGFKGAGKV-NH2		>4170		JBT0156*
743	Ac-RVFLYFSGKAGGLVKLVERQAFQTNVSKFR-NH2		>4170		JBT0157*
9	Ac-KKSGVGRLQVAFQSKKNVFVFGYFERLRAKKK-NH2	A	41		JBT0158
744	Ac-KKSGVGRLQVAFQSKKNVFVFGYFERLKK-NH2		>8300		JBT0159
745	Ac-KKSGVGRLQVAFQSKKNVFVFGYFKK-NH2		>8300		JBT0160
746	Ac-KKSGVGRLQVAFQSKKNVFVFKK-NH2		>8300		JBT0161
10	Ac-KKGRLQVAFQSKKNVFVFGYFERLRAKLTSKK-NH2	A	36		JBT0162
11	Ac-KKQVAFQSKKNVFVFGYFERLRAKLTSKK-NH2	A	18		JBT0163
12	Ac-KKFQSKKNVFVFGYFERLRAKLTSKK-NH2	A	43		JBT0164
712	Ac-KKKKNVFVFGYFERLRAKLTSKK-NH2	F	6134		JBT0165
254	Ac-KKAFQSKKNVFVFGYFERLRAKKK-NH2	C	120		JBT0169
13	Ac-KKFQSKKNVFVFGYFERLRAKLKK-NH2	A	39		JBT0170
255	Ac-KKQSKKNVFVFGYFERLRAKLTKK -NH2	C	123		JBT0171
406	Ac-KKQSKKNVFVFGYFERLRAKKK-NH2	D	295		JBT0172
14	Ac-KKAFQSKKNVFVFGYFERLRAKLKK-NH2	A	44		JBT0174
182	Ac-KKAFQSKKNVFVFGYFERLRAKLTKK-NH2	B	65		JBT0175
15	Ac-K(FAM)KSGVGRLQVAFQSKKNVFVFGYFERLRAKLTSKK-NH2	A	46		JBT0291
256	Ac-FQSKKNVFVFGYFERLRAKL-NH2	C	179	61	JBT0293
257	Ac-YQSKKNVFVFGYFERLRAKL-NH2	C	188		JBT0294
713	Ac-FSSKKNVFVFGYFERLRAKL-NH2	F	2777	37	JBT0295
407	Ac-FQNKKNVFVFGYFERLRAKL-NH2	D	575		JBT0296
183	Ac-FQSKNNVFVFGYFERLRAKL-NH2	B	63		JBT0297

도면32ab

서열 번호	서열	친화도 클래스	IC50 평균 [nM]	% 억제 (JBT-0477에 비해)	샘플 번호
747	Ac-FQSKQNVFVFGYFERLRAKL-NH2		>206		JBT0298
408	Ac-FQSKKNVFAFGYFERLRAKL-NH2	D	446	25	JBT0299
409	Ac-FQSKKNVFSFGYFERLRAKL-NH2	D	943		JBT0300
410	Ac-FQSKKNVFTFGYFERLRAKL-NH2	D	671		JBT0301
258	Ac-FQSKKNVFVAGYFERLRAKL-NH2	C	133	55	JBT0302
184	Ac-FQSKKNVFVDGYFERLRAKL-NH2	B	85	66	JBT0303
259	Ac-FQSKKNVFVLGYFERLRAKL-NH2	C	231	54	JBT0304
260	Ac-FQSKKNVFVQGYFERLRAKL-NH2	C	154		JBT0305
185	Ac-FQSKKNVFVSGYFERLRAKL-NH2	B	89	50	JBT0306
261	Ac-FQSKKNVFVYGYFERLRAKL-NH2	C	108		JBT0307
411	Ac-FQSKKNVFVFGYKERLRAKL-NH2	D	736		JBT0308
412	Ac-FQSKKNVFVFGYYERLRAKL-NH2	D	565		JBT0309
262	Ac-FQSKKNVFVFGYFDRLRAKL-NH2	C	146	66	JBT0310
748	Ac-FQSKKNVFVFGYFERLRAKN-NH2		>50000		JBT0311
749	Ac-FQSKKNVFVFGYFERLRAK-NH2		>50000		JBT0335
263	Ac-FQSKNNVFVAGYFDRLRAKL-OH	C	232		JBT0336
16	Ac-FQSKNNVFVDGYFDRLRAKL-NH2	A	32		JBT0337
17	Ac-FQSKNNVFVQGYFDRLRAKL-NH2	A	32		JBT0338
18	Ac-FQSKNNVFVSGYFDRLRAKL-NH2	A	46		JBT0339
186	Ac-FQSKNNVFVYGYFDRLRAKL-NH2	B	68		JBT0340
187	Ac-FQSKNNVFVFGYFDRLRAKL-NH2	B	75		JBT0341
19	Ac-FQSKNNVFVDGYFERLRAKL-NH2	A	47	90	JBT0342
188	Ac-FQSKKNVFVDGYFDRLRAKL-NH2	B	83		JBT0343
413	Fam-Tids-AFQSKKNVFVFGYFERLRAK-NH2	D	313		JBT0372
189	Fam-AFQSKKNVFVFGYFERLRAK-NH2	B	97		JBT0373

도면32ac

샤폴 번호	% 억제 (JBT-04477에 비 한)	IC50 평균 [nM]	친화도 클래스	서열	서열 번호
JBT0374		25	A	Ac-FQSKDNVFVFGYFERLRAKL-NH2	20
JBT0375	101	56	B	Ac-FQSKGNVFVFGYFERLRAKL-NH2	190
JBT0376	32	254	D	Ac-FQSKKNAFVFGYFERLRAKL-NH2	414
JBT0377		146	C	Ac-FQSKKNQFVFGYFERLRAKL-NH2	264
JBT0378		39	A	Ac-FQSKKNVFVEGYFERLRAKL-NH2	21
JBT0379		27	A	Ac-FQSKKNVFVTGYFERLRAKL-NH2	22
JBT0380		81	B	Ac-FQSKKNVFVVGYFERLRAKL-NH2	191
JBT0381	40	154	C	Ac-FQSPKNVFVFGYFERLRAKL-NH2	265
JBT0385		1765	E	Ac-FQSKKNNFVFGYFERLRAKL-NH2	672
JBT0386	42	526	D	Ac-FQSKKNPFVFGYFERLRAKL-NH2	415
JBT0388		51	B	Ac-FQSKKNVHVFGYFERLRAKL-NH2	192
JBT0389		1165	E	Ac-FQSKKNVVVFGYFERLRAKL-NH2	673
JBT0390		1393	E	Ac-FQSKKNVFQFGYFERLRAKL-NH2	674
JBT0391	22	107	C	Ac-FQSKKNVFVGGYFERLRAKL-NH2	266
JBT0392		32	A	Ac-FQSKKNVFVHGYFERLRAKL-NH2	23
JBT0393	87	56	B	Ac-FQSKKNVFVKGYFERLRAKL-NH2	193
JBT0394		48	A	Ac-FQSKKNVFVMGYFERLRAKL-NH2	24
JBT0395		31	A	Ac-FQSKKNVFVNGYFERLRAKL-NH2	25
JBT0396	28	80	B	Ac-FQSKKNVFVPGYFERLRAKL-NH2	194
JBT0397		69	B	Ac-FQSKKNVFVRGYFERLRAKL-NH2	195
JBT0398		69	B	Ac-FQSKKNVFVFGYFEELRAKL-NH2	196
JBT0399	-24	>185 >5000.000 >5000.000 >5000.000		Ac-FQSKKNVFVFGYFELLRAKL-NH2	750

도면32ad

사물 번호	% 억제 (JBT-04774에 비한)	IC50 평균 [nM]	친화도 클래스	서열	서열 번호
JBT0400	40	216	C	Ac-FQSKKNVFVFGYFLRLRAKL-NH2	267
JBT0401		359	D	Ac-FQSKKNVFVFGYFERLRAVL-NH2	416
JBT0406		210	C	Ac-Tids-FQSKKNVFVFGYFERLRAKL-NH2	268
JBT0471	93	29	A	Ac-FQSKGNVFVTGYFERLRAKL-NH2	26
JBT0472	96	38	A	Ac-FQSKGNVFVNGYFERLRAKL-NH2	27
JBT0473	106	39	A	Ac-FQSKGNVFVHGYFERLRAKL-NH2	28
JBT0474	100	27	A	Ac-FQSKGNVFVKGYFERLRAKL-NH2	29
JBT0475	106	25	A	Ac-FQSKGNVFVEGYFERLRAKL-NH2	30
JBT0476	56	23	A	Ac-FQSKGNVFVDGYFDRLRAKL-NH2	31
JBT0477	99	32	A	Ac-FQSKGNVFVDGYFERLRAKL-NH2	32
JBT0478		29	A	Ac-FQSKDNVFVTGYFERLRAKL-NH2	33
JBT0479		48	A	Ac-FQSKDNVFVNGYFERLRAKL-NH2	34
JBT0480		35	A	Ac-FQSKDNVFVHGYFERLRAKL-NH2	35
JBT0481		49	A	Ac-FQSKDNVFVKGYFERLRAKL-NH2	36
JBT0482		38	A	Ac-FQSKDNVFVEGYFERLRAKL-NH2	37
JBT0483	74	39	A	Ac-FQSKDNVFVDGYFERLRAKL-NH2	38
JBT0485		23	A	Ac-FQSKNNVFVTGYFERLRAKL-NH2	39
JBT0486		40	A	Ac-FQSKNNVFVNGYFERLRAKL-NH2	40
JBT0487		40	A	Ac-FQSKNNVFVHGYFERLRAKL-NH2	41
JBT0488		29	A	Ac-FQSKNNVFVKGYFERLRAKL-NH2	42
JBT0489		30	A	Ac-FQSKNNVFVEGYFERLRAKL-NH2	43
JBT0490		42	A	Ac-FQSKQNVFVTGYFERLRAKL-NH2	44
JBT0491		59	B	Ac-FQSKQNVFVNGYFERLRAKL-NH2	197
JBT0492		68	B	Ac-FQSKQNVFVHGYFERLRAKL-NH2	198
JBT0493		86	B	Ac-FQSKQNVFVKGYFERLRAKL-NH2	199

도면32ae

서열 번호	서열	친화도 클래스	IC50 평균 [nM]	% 억제 (JBT-0477에 비 한)	사물 번호
45	Ac-FQSKQNVFVDGYFERLRAKL-NH2	A	48	74	JBT0494
200	Ac-FQSKQNVFVEGYFERLRAKL-NH2	B	52		JBT0495
201	Ac-Nmf-QSKGNVFVFGYFERLRAKL-NH2	B	100		JBT0497
675	Ac-FQ-Nms-KGNVFVFGYFERLRAKL-NH2	E	1512		JBT0498
202	Ac-FQS-Nmk-GNVFVFGYFERLRAKL-NH2	B	74		JBT0499
46	Ac-FQSK-Nmg-NVFVFGYFERLRAKL-NH2	A	24		JBT0500
417	Ac-FQSKGN-Nmv-FVFGYFERLRAKL-NH2	D	267		JBT0501
751	Ac-FQSKGNV-Nmf-VFGYFERLRAKL-NH2		>5000		JBT0502
676	Ac-FQSKGNVF-Nmv-FGYFERLRAKL-NH2	E	2038		JBT0503
418	Ac-FQSKGNVFV-Nmf-GYFERLRAKL-NH2	D	861		JBT0504
269	Ac-FQSKGNVFVF-Nmg-YFERLRAKL-NH2	C	118		JBT0505
714	Ac-FQSKGNVFVFG-Nmy-FERLRAKL-NH2	F	3106		JBT0506
677	Ac-FQSKGNVFVFGY-Nmf-ERLRAKL-NH2	E	2091		JBT0507
678	Ac-FQSKGNVFVFGYF-Nme-RLRAKL-NH2	E	1192		JBT0508
752	Ac-FQSKGNVFVFGYFE-Nmr-LRAKL-NH2		>5000		JBT0509
753	Ac-FQSKGNVFVFGYFER-Nml-RAKL-NH2		>5000		JBT0510
754	Ac-FQSKGNVFVFGYFERL-Nmr-AKL-NH2		>5000		JBT0511
679	Ac-FQSKGNVFVFGYFERLR-Nma-KL-NH2	E	2218		JBT0512
755	Ac-FQSKGNVFVFGYFERLRA-Nmk-L-NH2		>5000		JBT0513
419	Ac-FQSKGNVFVFGYFERLRAK-Nml-NH2	D	891		JBT0514
420	Ac-Bhf-QSKGNVFVFGYFERLRAKL-NH2	D	366		JBT0515
680	Ac-F-Bhq-SKGNVFVFGYFERLRAKL-NH2	E	1191		JBT0516
421	Ac-FQ-Bhs-KGNVFVFGYFERLRAKL-NH2	D	781		JBT0517
422	Ac-FQS-Bhk-GNVFVFGYFERLRAKL-NH2	D	767		JBT0518
270	Ac-FQSK-Bal-NVFVFGYFERLRAKL-NH2	C	207		JBT0519

도면32af

서열 번호	서열	친화도 클래스	IC50 평균 [nM]	% 억제 (JBT-0477에 비 한)	사물 번호
271	Ac-FQSKG-Btq-VFVFGYFERLRAKL-NH2	C	188		JBT0520
756	Ac-FQSKGN-Btl-FVFGYFERLRAKL-NH2		>5000		JBT0521
681	Ac-FQSKGNV-Bhf-VFGYFERLRAKL-NH2	E	1424		JBT0522
757	Ac-FQSKGNVF-Btl-FGYFERLRAKL-NH2		>5000		JBT0523
682	Ac-FQSKGNVFV-Bhf-GYFERLRAKL-NH2	E	1573		JBT0524
758	Ac-FQSKGNVFVF-Bal-YFERLRAKL-NH2		>5000		JBT0525
759	Ac-FQSKGNVFVFG-Bhy-FERLRAKL-NH2		>5000		JBT0526
683	Ac-FQSKGNVFVFGY-Bhf-ERLRAKL-NH2	E	1348		JBT0527
272	Ac-FQSKGNVFVFGYF-Btc-RLRAKL-NH2	C	107		JBT0528
760	Ac-FQSKGNVFVFGYFE-Bhr-LRAKL-NH2		>5000		JBT0529
684	Ac-FQSKGNVFVFGYFER-Bhl-RAKL-NH2	E	1684		JBT0530
203	Ac-FQSKGNVFVFGYFERL-Bhr-AKL-NH2	B	93		JBT0531
423	Ac-FQSKGNVFVFGYFERLR-Bal-KL-NH2	D	334		JBT0532
424	Ac-FQSKGNVFVFGYFERLRA-Btk-L-NH2	D	756		JBT0533
204	Ac-FQSKGNVFVFGYFERLRAK-Bhl-NH2	B	84		JBT0534
685	Ac-FQSKGNVFVFGYFE-Cit-LRAKL-NH2	E	1779		JBT0535
273	Ac-FQSKGNVFVFGYFERL-Cit-AKL-NH2	C	229		JBT0536
761	Ac-FQSKGNVFVFGYFE-Nle-LRAKL-NH2		>5000		JBT0537
425	Ac-FQSKGNVFVFGYFERL-Nle-AKL-NH2	D	534		JBT0538
426	Ac-GQSKKNVFVFGYFERLRAKL-NH2	D	542	-1	JBT0539
427	Ac-FGSKKNVFVFGYFERLRAKL-NH2	D	479	3	JBT0540
428	Ac-FQGKKNVFVFGYFERLRAKL-NH2	D	292	14	JBT0541
274	Ac-FQSGKNVFVFGYFERLRAKL-NH2	C	129	14	JBT0542
275	Ac-FQSKKGVFVFGYFERLRAKL-NH2	C	184	67	JBT0543
429	Ac-FQSKKNGFVFGYFERLRAKL-NH2	D	746	-7	JBT0544

도면32ag

샤물 번호	% 억제 (JBT-0477에 비 한)	IC50 평균 [nM]	친화도 클래스	서열	서열 번호
JBT0545	-19	1780	E	Ac-FQSKKNVGVFGYFERLRAKL-NH2	686
JBT0546	-15	>5000		Ac-FQSKKNVFGFGYFERLRAKL-NH2	762
JBT0547	-18	>5000		Ac-FQSKKNVFVFGGFERLRAKL-NH2	763
JBT0548	4	885	D	Ac-FQSKKNVFVFGYGERLRAKL-NH2	430
JBT0549	35	572	D	Ac-FQSKKNVFVFGYFGRLRAKL-NH2	431
JBT0550	-14	>5000		Ac-FQSKKNVFVFGYFEGLRAKL-NH2	764
JBT0551	-22	1640	E	Ac-FQSKKNVFVFGYFERGRAKL-NH2	687
JBT0552	10	591	D	Ac-FQSKKNVFVFGYFERLRGKL-NH2	432
JBT0553	-19	1101	E	Ac-FQSKKNVFVFGYFERLRAGL-NH2	688
JBT0554	-5	314	D	Ac-FQSKKNVFVFGYFERLRAKG-NH2	433
JBT0555	8	350	D	Ac-KQSKKNVFVFGYFERLRAKL-NH2	434
JBT0556	2	336	D	Ac-FKSKKNVFVFGYFERLRAKL-NH2	435
JBT0557	27	245	C	Ac-FQKKKNVFVFGYFERLRAKL-NH2	276
JBT0558	44	125	C	Ac-FQSKKKVFVFGYFERLRAKL-NH2	277
JBT0559	23	203	C	Ac-FQSKKNKFVFGYFERLRAKL-NH2	278
JBT0560	2	688	D	Ac-FQSKKNVKVFGYFERLRAKL-NH2	436
JBT0561	7	653	D	Ac-FQSKKNVFKFGYFERLRAKL-NH2	437
JBT0562	10	413	D	Ac-FQSKKNVFVFKYFERLRAKL-NH2	438
JBT0563	-6	1151	E	Ac-FQSKKNVFVFGKFERLRAKL-NH2	689
JBT0564	69	95	B	Ac-FQSKKNVFVFGYFKRLRAKL-NH2	205
JBT0565	-5	383	D	Ac-FQSKKNVFVFGYFEKLRAKL-NH2	439
JBT0566	-7	3310	F	Ac-FQSKKNVFVFGYFERKRAKL-NH2	715
JBT0567	51	225	C	Ac-FQSKKNVFVFGYFERLKAKL-NH2	279
JBT0568	49	147	C	Ac-FQSKKNVFVFGYFERLRKKL-NH2	280
JBT0569	13			Ac-FQSKKNVFVFGYFERLRAKK-NH2	765

도면32ah

서열 번호	서열	친화도 클래스	IC50 평균 [nM]	% 억제 (JBT-0477에 비한)	샘플 번호
766	Ac-FFSKKNVFVFGYFERLRAKL-NH2		>5000	4	JBT0570
767	Ac-FQFKKNVFVFGYFERLRAKL-NH2		>5000	4	JBT0571
768	Ac-FQSFKNVFVFGYFERLRAKL-NH2		>5000	12	JBT0572
690	Ac-FQSKFNVFVFGYFERLRAKL-NH2	E	1370	5	JBT0573
769	Ac-FQSKKFVFVFGYFERLRAKL-NH2		>5000	-8	JBT0574
440	Ac-FQSKKNFFVFGYFERLRAKL-NH2	D	578	3	JBT0575
770	Ac-FQSKKNVFVFYFERLRAKL-NH2		>1666	12	JBT0576
771	Ac-FQSKKNVFVFGFFERLRAKL-NH2		>5000	14	JBT0577
441	Ac-FQSKKNVFVFGYFFRLRAKL-NH2	D	292	58	JBT0578
772	Ac-FQSKKNVFVFGYFEFLRAKL-NH2		>5000	4	JBT0579
773	Ac-FQSKKNVFVFGYFERFRAKL-NH2		>5000	12	JBT0580
774	Ac-FQSKKNVFVFGYFERLFAKL-NH2		>5000	17	JBT0581
691	Ac-FQSKKNVFVFGYFERLRFKL-NH2	E	>5000	45	JBT0582
775	Ac-FQSKKNVFVFGYFERLRAFL-NH2		>5000	13	JBT0583
442	Ac-FQSKKNVFVFGYFERLRAKF-NH2	D	401	50	JBT0584
443	Ac-DQSKKNVFVFGYFERLRAKL-NH2	D	609	10	JBT0585
776	Ac-FDSKKNVFVFGYFERLRAKL-NH2		>1667	5	JBT0586
281	Ac-FQDKKNVFVFGYFERLRAKL-NH2	C	172	50	JBT0587
777	Ac-FQSDKNVFVFGYFERLRAKL-NH2		>5000	5	JBT0588
282	Ac-FQSKKDVFVFGYFERLRAKL-NH2	C	241	58	JBT0589
778	Ac-FQSKKNDFVFGYFERLRAKL-NH2		>5000	2	JBT0590
779	Ac-FQSKKNVDVFGYFERLRAKL-NH2		>5000	1	JBT0591
780	Ac-FQSKKNVFDFGYFERLRAKL-NH2		>5000	-1	JBT0592
716	Ac-FQSKKNVFVFDYFERLRAKL-NH2	F	2982	6	JBT0593
781	Ac-FQSKKNVFVFGDFERLRAKL-NH2		>5000	-1	JBT0594

도면32ai

샤물 번호	% 억제 (JBT-04774에 비 한)	IC50 평균 [nM]	친화도 클래스	서열	서열 번호
JBT0595	10	3557	F	Ac-FQSKKNVFVFGYDERLRAKL-NH2	717
JBT0596	1	549	D	Ac-FQSKKNVFVFGYFEDLRAKL-NH2	444
JBT0597	-5	>5000		Ac-FQSKKNVFVFGYFERDRAKL-NH2	782
JBT0598	-2	>5000		Ac-FQSKKNVFVFGYFERLDAKL-NH2	783
JBT0599	30	301	D	Ac-FQSKKNVFVFGYFERLRDKL-NH2	445
JBT0600	-12	3232	F	Ac-FQSKKNVFVFGYFERLRADL-NH2	718
JBT0601	-1	1531	E	Ac-LQSKKNVFVFGYFERLRAKL-NH2	692
JBT0602	8	>1000		Ac-FLSKKNVFVFGYFERLRAKL-NH2	784
		>1000			
		>5000.000			
JBT0603	4	>5000		Ac-FQLKKNVFVFGYFERLRAKL-NH2	785
JBT0604	11	>1668		Ac-FQSLKNVFVFGYFERLRAKL-NH2	786
JBT0605	18	>1669		Ac-FQSKLNVFVFGYFERLRAKL-NH2	787
JBT0606	1	>5000		Ac-FQSKKLVFVFGYFERLRAKL-NH2	788
JBT0607	19	718	D	Ac-FQSKKNLFVFGYFERLRAKL-NH2	446
JBT0608	4	2673	F	Ac-FQSKKNVLVFGYFERLRAKL-NH2	719
JBT0609	0	>5000		Ac-FQSKKNVFLFGYFERLRAKL-NH2	789
JBT0610	-4	>5000		Ac-FQSKKNVFVFLYFERLRAKL-NH2	790
JBT0611	-5	>5000		Ac-FQSKKNVFVFGLFERLRAKL-NH2	791
JBT0612	9	1378	E	Ac-FQSKKNVFVFGYLERLRAKL-NH2	693
JBT0613		237	C	Ac-FQSKGNVFVFGYFERLRAKL-OH	283
JBT0614		2575	F	H-FQSKGNVFVFGYFERLRAKL-OH	720
JBT0615		249	C	H-FQSKGNVFVFGYFERLRAKL-NH2	284
JBT0616		124	C	H-GSFQSKKNVFVDGYFERLRAKL-OH	285
JBT0636		24	A	Ac-FQSK-Nmg-NVFVDGYFARLRAKL-NH2	47

도면32aj

서열 번호	서열	친화도 클래스	IC50 평균 [nM]	% 억제 (JBT-0477에 비 한)	샤물 번호
48	Ac-FQSKGNVHVKGYFERLRAKL-NH2	A	18		JBT0651
49	Ac-FQSKGNVHVDGYFERLRAKL-NH2	A	36	103	JBT0652
50	Ac-FQSPGNVHVKGYFERLRAKL-NH2	A	23		JBT0653
51	Ac-FQSPGNVHVDGYFERLRAKL-NH2	A	16		JBT0654
52	Ac-FQSKGNIFVIGYFERLRAKL-NH2	A	38		JBT0655
286	Ac-FQSKGNLFVFGYFERLRAKL-NH2	C	155		JBT0656
287	Ac-FQSKGNVFIFGYFERLRAKL-NH2	C	142		JBT0657
694	Ac-FQSKGNVFLFGYFERLRAKL-NH2	E	1062		JBT0658
53	Ac-FQSKaNVFVFGYFERLRAKL-NH2	A	45		JBT0663
54	Ac-FQSKaNVFV1GYFARLRAKL-NH2	A	49		JBT0668
206	Ac-FQSK-Nmg-AVFVFGYFARLRAKL-NH2	B	68		JBT0681
55	Ac-FQSK-Nmg-AVFVDGYFARLRAKL-NH2	A	25		JBT0683
721	Ac-AQSKKNVFVFGYFERLRAKL-NH2	F		32	JBT0691
695	Ac-FASKKNVFVFGYFERLRAKL-NH2	E		49	JBT0692
447	Ac-FQAKKNVFVFGYFERLRAKL-NH2	D		60	JBT0693
448	Ac-FQSAKNVFVFGYFERLRAKL-NH2	D		58	JBT0694
449	Ac-FQSKANVFVFGYFERLRAKL-NH2	D		52	JBT0695
288	Ac-FQSKKAVFVFGYFERLRAKL-NH2	C	101	94	JBT0696
56	Ac-FQSKGNVFVDGYFERL-Dap-AKL-NH2	A	47		JBT0697
792	Ac-FQSKKNVAVFGYFERLRAKL-NH2			-1	JBT0698
57	Ac-FQSKGNVFVDGYFERL-Orn-AKL-NH2	A	37		JBT0699
58	Ac-FQSKGNVFVDGYFERL-Nva-AKL-NH2	A	26		JBT0700
793	Ac-FQSKKNVFVFAYFERLRAKL-NH2			29	JBT0701
794	Ac-FQSKKNVFVFGAFERLRAKL-NH2			10	JBT0702
795	Ac-FQSKKNVFVFGYAERLRAKL-NH2			22	JBT0703

도면32ak

샤물 번호	% 억제 (JBT-0477에 비한)	IC50 평균 [nM]	친화도 클래스	서열	서열 번호
JBT0704	96	116	C	Ac-FQSKKNVFVFGYFARLRAKL-NH2	289
JBT0705	22			Ac-FQSKKNVFVFGYFEALRAKL-NH2	796
JBT0706	10			Ac-FQSKKNVFVFGYFERARAKL-NH2	797
JBT0707	50	502	D	Ac-FQSKKNVFVFGYFERLAAKL-NH2	450
JBT0708		30	A	Ac-FQSKaNVFVAGYFERLRAKL-NH2	59
JBT0709	6			Ac-FQSKKNVFVFGYFERLRAAL-NH2	798
JBT0710	-2			Ac-FQSKKNVFVFGYFERLRAKA-NH2	799
JBT0711	2			Ac-PQSKKNVFVFGYFERLRAKL-NH2	800
JBT0712	19			Ac-FPSKKNVFVFGYFERLRAKL-NH2	801
JBT0713	5	679	D	Ac-FQPKKNVFVFGYFERLRAKL-NH2	451
JBT0714		23	A	Ac-FQSKaAVFVDGYFARLRAKL-NH2	60
JBT0715	40		F	Ac-FQSKPNVFVFGYFERLRAKL-NH2	722
JBT0716	42		E	Ac-FQSKKPVFVFGYFERLRAKL-NH2	696
JBT0717		24	A	Ac-FQSK-Nmg-NVFVDGYFERLRAKL-NH2	61
JBT0718	14			Ac-FQSKKNVPVFGYFERLRAKL-NH2	802
JBT0719	31		F	Ac-FQSKKNVFPFGYFERLRAKL-NH2	723
JBT0720		27	A	Ac-FQSK-Nmg-NVFVTGYFARLRAKL-NH2	62
JBT0721	29			Ac-FQSKKNVFVFPYFERLRAKL-NH2	803
JBT0722	12			Ac-FQSKKNVFVFGPFERLRAKL-NH2	804
JBT0723	3			Ac-FQSKKNVFVFGYPERLRAKL-NH2	805
JBT0724	50		D	Ac-FQSKKNVFVFGYFPRLRAKL-NH2	452
JBT0725	21			Ac-FQSKKNVFVFGYFEPLRAKL-NH2	806
JBT0726	2		D	Ac-FQSKKNVFVFGYFERPRAKL-NH2	453
JBT0727	-1			Ac-FQSKKNVFVFGYFERLPAKL-NH2	807
JBT0728	12			Ac-FQSKKNVFVFGYFERLRPKL-NH2	808

도면32a1

서열 번호	서열	친화도 클래스	IC50 평균 [nM]	% 억제 (JBT-04774에 비한)	샘플 번호
809	Ac-FQSKKNVFVFGYFERLRAPL-NH2			4	JBT0729
454	Ac-FQSKKNVFVFGYFERLRAKP-NH2	D		3	JBT0730
810	Ac-SQSKKNVFVFGYFERLRAKL-NH2			21	JBT0731
63	Ac-FQSKGNVFVDGYFERL-Hci-AKL-NH2	A	20		JBT0732
64	Ac-FQSKGNVFVDGYFERL-Har-AKL-NH2	A	26		JBT0733
455	Ac-FQSSKNVFVFGYFERLRAKL-NH2	D		26	JBT0734
811	Ac-FQSKSNVFVFGYFERLRAKL-NH2			19	JBT0735
456	Ac-FQSKKSVFVFGYFERLRAKL-NH2	D		68	JBT0736
724	Ac-FQSKKNSFVFGYFERLRAKL-NH2	F		34	JBT0737
812	Ac-FQSKKNVSVFGYFERLRAKL-NH2			20	JBT0738
65	Ac-FQSKGNVFVDGYFERL-Opa-AKL-NH2	A	31		JBT0739
66	Ac-FQSKGNVFVDGYFERL-Aib-AKL-NH2	A	18	113	JBT0740
697	Ac-FQSKKNVFVFSYFERLRAKL-NH2	E		44	JBT0741
813	Ac-FQSKKNVFVFGSFERLRAKL-NH2			12	JBT0742
814	Ac-FQSKKNVFVFGYSERLRAKL-NH2			5	JBT0743
457	Ac-FQSKKNVFVFGYFSRLRAKL-NH2	D		66	JBT0744
815	Ac-FQSKKNVFVFGYFESLRAKL-NH2			9	JBT0745
816	Ac-FQSKKNVFVFGYFERSRAKL-NH2			-1	JBT0746
817	Ac-FQSKKNVFVFGYFERLSAKL-NH2			19	JBT0747
458	Ac-FQSKKNVFVFGYFERLRSKL-NH2	D		43	JBT0748
459	Ac-FQSKKNVFVFGYFERLRASL-NH2	D		19	JBT0749
818	Ac-FQSKKNVFVFGYFERLRAKS-NH2			10	JBT0750
725	Ac-FQSKKNVFVFGYFERLLAKL-NH2	F		33	JBT0751
698	Ac-FQSKKNVFVFGYFERLRLKL-NH2	E		46	JBT0752
460	Ac-FQSKKNVFVFGYFERLRALL-NH2	D		26	JBT0753

도면32am

서열 번호	서열	친화도 클래스	IC50 평균 [nM]	% 억제 (JBT-0477에 비 한)	서열 번호
67	Ac-FQSK-Nmg-AVFVTGYFARLRAKL-NH2	A	33		JBT0754
726	Ac-fQSKKNVFVFtGYFERLRAKL-NH2	F	>5000	34	JBT0755
727	Ac-FqSKKNVFVFtGYFERLRAKL-NH2	F	>5000	35	JBT0756
699	Ac-FQsKKNVFVFtGYFERLRAKL-NH2	E	2212		JBT0757
290	Ac-FQSkKNVFVFtGYFERLRAKL-NH2	C	101	52	JBT0758
207	Ac-FQSKkNVFVFtGYFERLRAKL-NH2	B	52	78	JBT0759
728	Ac-FQSKKnVFVFtGYFERLRAKL-NH2	F		37	JBT0760
729	Ac-FQSKKNvFVFtGYFERLRAKL-NH2	F		35	JBT0761
730	Ac-FQSKKNVfVFtGYFERLRAKL-NH2	F		37	JBT0762
291	Ac-FQSKKNVFtFtGYFERLRAKL-NH2	C	129	58	JBT0763
461	Ac-FQSKKNVFVfGYFERLRAKL-NH2	D	296	53	JBT0764
68	Ac-FQSKGNVFVDGYFERL-Eew-AKL-NH2	A	26		JBT0765
462	Ac-FQSKKNVFVFtGyFERLRAKL-NH2	D		32	JBT0766
700	Ac-FQSKKNVFVFtGYfERLRAKL-NH2	E		40	JBT0767
463	Ac-FQSKKNVFVFtGYFeRLRAKL-NH2	D		27	JBT0768
464	Ac-FQSKKNVFVFtGYFErLRAKL-NH2	D		22	JBT0769
819	Ac-FQSKKNVFVFtGYFER※RAKL-NH2			20	JBT0770
465	Ac-FQSKKNVFVFtGYFERLrAKL-NH2	D	423	29	JBT0771
820	Ac-FQSKKNVFVFtGYFERLRaKL-NH2			21	JBT0772
821	Ac-FQSKKNVFVFtGYFERLRAkL-NH2			21	JBT0773
822	Ac-FQSKKNVFVFtGYFERLRAKl-NH2			26	JBT0774
69	Ac-FQSKGNVFVTGYFDRLRAKL-NH2	A	22	73	JBT0775
208	Ac-FQSKGNVFVNGYFDRLRAKL-NH2	B	82	51	JBT0776
292	Ac-FQSKGNVFVHGYFDRLRAKL-NH2	C	101	49	JBT0777
209	Ac-FQSKGNVFVKGYFDRLRAKL-NH2	B	66	68	JBT0778

도면32an

사물 번호	% 억제 (JBT-04770에 비 한)	IC50 평균 [nM]	친화도 클래스	서열	서열 번호
JBT0779	51	71	B	Ac-FQSKGNVFVEGYFDRLRAKL-NH2	210
JBT0780		44	A	Ac-FQSK-Nmg-NVFVFGYFARLRAKL-NH2	70
JBT0781	82	63	B	Ac-FQSKGNVFVDGYFKRLRAKL-NH2	211
JBT0782	44	>556 >555.556	D	Ac-fqskknvfvfgyferlrakl-NH2	466
JBT0783	39	>556 >1666.670	D	Ac-lkarlrefygfvfvnkksqf-NH2	467
JBT0784		>5000		Ac-FQSKKNVFVFGYFE-(오메가 - 메틸 -R)-L-(오메가 - 메틸 -R)-AKL-NH2	823
JBT0785		163	C	Ac-FQSKKNVFVFGYFERL-(오메가 - 메틸 -R)-LRAKL-NH2	293
JBT0786		616	D	Ac-FQSKKNVFVFGYFE-(오메가 - 메틸 -R)-AKL-NH2	468
JBT0789		20	A	Ac-FQSK-Nmg-NVFVDGYFERL-Nle-AKL-NH2	71
JBT0791	42		D	Ac-AQSKGNVFVDGYFERLRAKL-NH2	469
JBT0792	5		D	Ac-FASKGNVFVDGYFERLRAKL-NH2	470
JBT0793	88		C	Ac-FQAKGNVFVDGYFERLRAKL-NH2	294
JBT0794	90	156	C	Ac-FQSAGNVFVDGYFERLRAKL-NH2	295
JBT0795	92	34	A	Ac-FQSKGAVFVDGYFERLRAKL-NH2	72
JBT0796	70		D	Ac-FQSKGNAFVDGYFERLRAKL-NH2	471
JBT0797	-2			Ac-FQSKGNVAVDGYFERLRAKL-NH2	824
JBT0798	39		F	Ac-FQSKGNVFADGYFERLRAKL-NH2	731
JBT0799	8			Ac-FQSKGNVFVDAYFERLRAKL-NH2	825
JBT0800	-2			Ac-FQSKGNVFVDGAFERLRAKL-NH2	826
JBT0801	64		D	Ac-FQSKGNVFVDGYAERLRAKL-NH2	472
JBT0802	101	35	A	Ac-FQSKGNVFVDGYFARLRAKL-NH2	73
JBT0803	7		D	Ac-FQSKGNVFVDGYFEALRAKL-NH2	473
JBT0804	10			Ac-FQSKGNVFVDGYFERARAKL-NH2	827

도면32ao

서열 번호	서열	친화도 클래스	IC50 평균 [nM]	% 억제 (JBT-0477에 비 한)	샤물 번호
212	Ac-FQSKGNVFVDGYFERLAAKL-NH2	B	64	98	JBT0805
74	Ac-FQSK-Nmg-NVFVAGYFARLRAKL-NH2	A	42		JBT0806
828	Ac-FQSKGNVFVDGYFERLRAAL-NH2			-6	JBT0807
732	Ac-FQSKGNVFVDGYFERLRAKA-NH2	F		39	JBT0808
829	Ac-DQSKGNVFVDGYFERLRAKL-NH2			10	JBT0809
830	Ac-FDSKGNVFVDGYFERLRAKL-NH2			-1	JBT0810
474	Ac-FQDKGNVFVDGYFERLRAKL-NH2	D		69	JBT0811
296	Ac-FQSDGNVFVDGYFERLRAKL-NH2	C		81	JBT0812
475	Ac-FQSKGDVFVDGYFERLRAKL-NH2	D		76	JBT0813
831	Ac-FQSKGNDFVDGYFERLRAKL-NH2			4	JBT0814
832	Ac-FQSKGNVDVDGYFERLRAKL-NH2			2	JBT0815
833	Ac-FQSKGNVFDDGYFERLRAKL-NH2			1	JBT0816
834	Ac-FQSKGNVFVDDYFERLRAKL-NH2			5	JBT0817
476	Ac-FQSKGNVFVDGDFERLRAKL-NH2	D		3	JBT0818
477	Ac-FQSKGNVFVDGYDERLRAKL-NH2	D		31	JBT0819
835	Ac-FQSKGNVFVDGYFEDLRAKL-NH2			0	JBT0820
836	Ac-FQSKGNVFVDGYFERDRAKL-NH2			-3	JBT0821
478	Ac-FQSKGNVFVDGYFERLDAKL-NH2	D		51	JBT0822
297	Ac-FQSKGNVFVDGYFERLRDKL-NH2	C		82	JBT0823
837	Ac-FQSKGNVFVDGYFERLRADL-NH2			3	JBT0824
838	Ac-FQSKGNVFVDGYFERLRAKD-NH2			9	JBT0825
479	Ac-FQSKGNVFVDGYFERLRAKL-NH2	D		22	JBT0826
839	Ac-FESKGNVFVDGYFERLRAKL-NH2			-3	JBT0827
298	Ac-FQEKGNVFVDGYFERLRAKL-NH2	C		90	JBT0828
75	Ac-FQSEGNVFVDGYFERLRAKL-NH2	A		104	JBT0829

도면32ap

서열 번호	서열	친화도 클래스	IC50 평균 [nM]	% 억제 (JBT-0477에 비 한)	샤물 번호
480	Ac-FQSKGEVFVDGYFERLRAKL-NH2	D		75	JBT0830
481	Ac-FQSKGNEFVDGYFERLRAKL-NH2	D		18	JBT0831
840	Ac-FQSKGNVEVDGYFERLRAKL-NH2			-5	JBT0832
841	Ac-FQSKGNVTEDGYFERLRAKL-NH2			11	JBT0833
842	Ac-FQSKGNVFVDEYFERLRAKL-NH2			13	JBT0834
843	Ac-FQSKGNVFVDGEFERLRAKL-NH2	D		5	JBT0835
482	Ac-FQSKGNVFVDGYEERLRAKL-NH2	D		51	JBT0836
213	Ac-FQSK-Nmg-NVFVTGYFERL-Nle-AKL-NH2	B	87		JBT0837
483	Ac-FQSKGNVFVDGYFEELRAKL-NH2	D		4	JBT0838
844	Ac-FQSKGNVFVDGYFERERAKL-NH2			4	JBT0839
484	Ac-FQSKGNVFVDGYFERLEAKL-NH2	D		71	JBT0840
299	Ac-FQSKGNVFVDGYFERLREKL-NH2	C		82	JBT0841
845	Ac-FQSKGNVFVDGYFERLRAEL-NH2			3	JBT0842
846	Ac-FQSKGNVFVDGYFERLRAKE-NH2			21	JBT0843
300	Ac-FQSKaNVFVDGYFERLRAKL-NH2	C	112		JBT0844
485	Ac-FFSKGNVFVDGYFERLRAKL-NH2	D		5	JBT0845
486	Ac-FQFKGNVFVDGYFERLRAKL-NH2	D		66	JBT0846
301	Ac-FQSFGNVFVDGYFERLRAKL-NH2	C		82	JBT0847
487	Ac-FQSKGFVFVDGYFERLRAKL-NH2	D		69	JBT0848
488	Ac-FQSKGNFFVDGYFERLRAKL-NH2	D		48	JBT0849
302	Ac-FQSKaAVFVAGYFARLRAKL-NH2	C	150		JBT0850
489	Ac-FQSKGNVFFDGYFERLRAKL-NH2	D		6	JBT0851
847	Ac-FQSKGNVFVDFYFERLRAKL-NH2			18	JBT0852
848	Ac-FQSKGNVFVDGFFERLRAKL-NH2			13	JBT0853
490	Ac-FQSKaAVFVAGYFARL-Nle-AKL-NH2	D	593		JBT0854

도면32aq

서열 번호	서열	친화도 클래스	IC50 평균 [nM]	% 억제 (JBT-0477에 비 한)	샘플 번호
491	Ac-FQSKGNVFVDGYFFRLRAKL-NH2	D		57	JBT0855
492	Ac-FQSKGNVFVDGYFEFLRAKL-NH2	D		4	JBT0856
849	Ac-FQSKGNVFVDGYFERFRAKL-NH2			13	JBT0857
303	Ac-FQSKGNVFVDGYFERLFAKL-NH2	C		85	JBT0858
304	Ac-FQSKGNVFVDGYFERLRFKL-NH2	C		81	JBT0859
850	Ac-FQSKGNVFVDGYFERLRAFL-NH2			1	JBT0860
305	Ac-FQSKGNVFVDGYFERLRAKF-NH2	C		94	JBT0861
851	Ac-GQSKGNVFVDGYFERLRAKL-NH2			23	JBT0862
493	Ac-FGSKGNVFVDGYFERLRAKL-NH2	D		7	JBT0863
494	Ac-FQGKGNVFVDGYFERLRAKL-NH2	D		60	JBT0864
495	Ac-FQSGGNVFVDGYFERLRAKL-NH2	D		69	JBT0865
496	Ac-FQSKGGVFVDGYFERLRAKL-NH2	D		79	JBT0866
852	Ac-FQSKGNGFVDGYFERLRAKL-NH2			2	JBT0867
853	Ac-FQSKGNVGVDGYFERLRAKL-NH2			4	JBT0868
854	Ac-FQSKGNVFGDGYFERLRAKL-NH2			-1	JBT0869
214	Ac-FQSKaAVFVTGYFARLRAKL-NH2	B	57		JBT0870
855	Ac-FQSKGNVFVDGGFERLRAKL-NH2			1	JBT0871
497	Ac-FQSKGNVFVDGYGERLRAKL-NH2	D		24	JBT0872
498	Ac-FQSKGNVFVDGYFGRLRAKL-NH2	D		64	JBT0873
499	Ac-FQSKGNVFVDGYFEGLRAKL-NH2	D		1	JBT0874
856	Ac-FQSKGNVFVDGYFERGRAKL-NH2			-5	JBT0875
500	Ac-FQSKGNVFVDGYFERLGAKL-NH2	D		75	JBT0876
701	Ac-FQSKGNVFVDGYFERLRGKL-NH2	E		50	JBT0877
857	Ac-FQSKGNVFVDGYFERLRAGL-NH2			9	JBT0878
858	Ac-FQSKGNVFVDGYFERLRAKG-NH2			29	JBT0879

도면32ar

서열 번호	서열	친화도 클래스	IC50 평균 [nM]	% 억제 (JBT-0477에 비 함)	샤물 번호
501	Ac-HQSKGNVFVDGYFERLRAKL-NH2	D		56	JBT0880
859	Ac-FHSKGNVFVDGYFERLRAKL-NH2			-2	JBT0881
306	Ac-FQHKGNVFVDGYFERLRAKL-NH2	C		85	JBT0882
307	Ac-FQSHGNVFVDGYFERLRAKL-NH2	C		93	JBT0883
502	Ac-FQSKGHVFVDGYFERLRAKL-NH2	D		71	JBT0884
503	Ac-FQSKGNHFVDGYFERLRAKL-NH2	D		50	JBT0885
215	Ac-FQSKaNVFVDGYFARLRAKL-NH2	B	50		JBT0886
860	Ac-FQSKGNVFHDGYFERLRAKL-NH2			0	JBT0887
504	Ac-FQSKGNVFVDHYFERLRAKL-NH2	D		35	JBT0888
861	Ac-FQSKGNVFVDGHFERLRAKL-NH2			-8	JBT0889
505	Ac-FQSKGNVFVDGYHERLRAKL-NH2	D		71	JBT0890
308	Ac-FQSKGNVFVDGYFHRLRAKL-NH2	C		93	JBT0891
862	Ac-FQSKGNVFVDGYFEHLRAKL-NH2			-8	JBT0892
863	Ac-FQSKGNVFVDGYFERHRAKL-NH2			-10	JBT0893
76	Ac-FQSKGNVFVDGYFERLHAKL-NH2	A	42	103	JBT0894
506	Ac-FQSKGNVFVDGYFERLRHKL-NH2	D		69	JBT0895
864	Ac-FQSKGNVFVDGYFERLRAHL-NH2			-12	JBT0896
507	Ac-FQSKGNVFVDGYFERLRAKH-NH2	D		71	JBT0897
309	Ac-IQSKGNVFVDGYFERLRAKL-NH2	C		87	JBT0898
508	Ac-FISKGNVFVDGYFERLRAKL-NH2	D		7	JBT0899
310	Ac-FQIKGNVFVDGYFERLRAKL-NH2	C		88	JBT0900
77	Ac-FQSIGNVFVDGYFERLRAKL-NH2	A		96	JBT0901
311	Ac-FQSKGIVFVDGYFERLRAKL-NH2	C		94	JBT0902
78	Ac-FQSKGNIFVDGYFERLRAKL-NH2	A		97	JBT0903
865	Ac-FQSKGNVIVDGYFERLRAKL-NH2			2	JBT0904

도면32as

샤물 번호	% 억제 (JBT-0477에 비 한)	IC50 평균 [nM]	친화도 클래스	서열	서열 번호
JBT0905	58		D	Ac-FQSKGNVFIDGYFERLRAKL-NH2	509
JBT0906	-2			Ac-FQSKGNVFVDIYFERLRAKL-NH2	866
JBT0907	1			Ac-FQSKGNVFVDGIFERLRAKL-NH2	867
JBT0908	39		D	Ac-FQSKGNVFVDGYIERLRAKL-NH2	510
JBT0909	92		C	Ac-FQSKGNVFVDGYFIRLRAKL-NH2	312
JBT0910	0			Ac-FQSKGNVFVDGYFEILRAKL-NH2	868
JBT0911	15			Ac-FQSKGNVFVDGYFERIRAKL-NH2	869
JBT0912	104	57	B	Ac-FQSKGNVFVDGYFERLIAKL-NH2	216
JBT0913	65		D	Ac-FQSKGNVFVDGYFERLRIKL-NH2	511
JBT0914	-7			Ac-FQSKGNVFVDGYFERLRAIL-NH2	870
JBT0915	80		D	Ac-FQSKGNVFVDGYFERLRAKI-NH2	512
JBT0916	59		D	Ac-KQSKGNVFVDGYFERLRAKL-NH2	513
JBT0917	-3			Ac-FKSKGNVFVDGYFERLRAKL-NH2	871
JBT0918	65		D	Ac-FQKKGNVFVDGYFERLRAKL-NH2	514
JBT0919		42	A	Ac-FQSKaNVFVTGYFERLRAKL-NH2	79
JBT0920	115	23	A	Ac-FQSKGKVFVDGYFERLRAKL-NH2	80
JBT0921	11			Ac-FQSKGNKFVDGYFERLRAKL-NH2	872
JBT0922	-4			Ac-FQSKGNVKVDGYFERLRAKL-NH2	873
JBT0923	3		D	Ac-FQSKGNVFKDGYFERLRAKL-NH2	515
JBT0924	17			Ac-FQSKGNVFVDKYFERLRAKL-NH2	874
JBT0925	-6			Ac-FQSKGNVFVDGKFERLRAKL-NH2	875
JBT0926	20		D	Ac-FQSKGNVFVDGYKERLRAKL-NH2	516
JBT0927	-8			Ac-FQSKGNVFVDGYFEKLRAKL-NH2	876
JBT0928	4			Ac-FQSKGNVFVDGYFERKRAKL-NH2	877
JBT0929	107	29	A	Ac-FQSKGNVFVDGYFERLKAKL-NH2	81

도면32at

서열 번호	서열	친화도 클래스	IC50 평균 [nM]	% 억제 (JBT-0477에 비 한)	샘플 번호
702	Ac-FQSKGNVFVDGYFERLRKKL-NH2	E		44	JBT0930
82	Ac-FQSKGNVFVDGYFERL-Eagg-AKL-NH2	A	33		JBT0931
703	Ac-FQSKGNVFVDGYFERLRAKK-NH2	E		47	JBT0932
517	Ac-LQSKGNVFVDGYFERLRAKL-NH2	D		75	JBT0933
878	Ac-FLSKGNVFVDGYFERLRAKL-NH2			-7	JBT0934
518	Ac-FQLKGNVFVDGYFERLRAKL-NH2	D		72	JBT0935
83	Ac-FQSLGNVFVDGYFERLRAKL-NH2	A	41	97	JBT0936
313	Ac-FQSKGLVFVDGYFERLRAKL-NH2	C		90	JBT0937
519	Ac-FQSKGNLFVDGYFERLRAKL-NH2	D		44	JBT0938
879	Ac-FQSKGNVLVDGYFERLRAKL-NH2			27	JBT0939
880	Ac-FQSKGNVFLDGYFERLRAKL-NH2			4	JBT0940
520	Ac-FQSKGNVFVDLYFERLRAKL-NH2	D		28	JBT0941
521	Ac-FQSKGNVFVDGLFERLRAKL-NH2	D		4	JBT0942
314	Ac-FQSKGNVFVDGYLERLRAKL-NH2	C		83	JBT0943
84	Ac-FQSKGNVFVDGYFLRLRAKL-NH2	A		103	JBT0944
522	Ac-FQSKGNVFVDGYFELLRAKL-NH2	D		1	JBT0945
85	Ac-FQSKGNVFVDGYFERL-Dab-AKL-NH2	A	38		JBT0946
86	Ac-FQSKGNVFVDGYFERLLAKL-NH2	A		105	JBT0947
87	Ac-FQSKGNVFVDGYFERLRLKL-NH2	A	46	108	JBT0948
881	Ac-FQSKGNVFVDGYFERLRALL-NH2			2	JBT0949
217	Ac-FQSKaNVFVFGYFARLRAKL-NH2	B	73		JBT0950
88	Ac-MQSKGNVFVDGYFERLRAKL-NH2	A		97	JBT0951
89	Ac-FQMKGNVFVDGYFERLRAKL-NH2	A	43	109	JBT0953
882	Ac-FQSKGNMFVDGYFERLRAKL-NH2			27	JBT0956
523	Ac-FQSKGNVFVDGYMERLRAKL-NH2	D		77	JBT0961

도면32au

서열 번호	서열	친화도 클래스	IC50 평균 [nM]	% 억제 (JBT-04770| 비 함)	사물 번호
90	Ac-FQSKGNVFVDGYFMRLRAKL-NH2	A	40	107	JBT0962
883	Ac-FQSKGNVFVDGYFERMRAKL-NH2			28	JBT0964
91	Ac-FQSKGNVFVDGYFERLRMKL-NH2	A		100	JBT0966
524	Ac-NQSKGNVFVDGYFERLRAKL-NH2	D		65	JBT0969
525	Ac-FNSKGNVFVDGYFERLRAKL-NH2	D		7	JBT0970
315	Ac-FQNKGNVFVDGYFERLRAKL-NH2	C		83	JBT0971
316	Ac-FQSNGNVFVDGYFERLRAKL-NH2	C		94	JBT0972
92	Ac-FQSKGNVFVDGYFERL-Cha-AKL-NH2	A	37		JBT0973
884	Ac-FQSKGNNFVDGYFERLRAKL-NH2			29	JBT0974
885	Ac-FQSKGNVNVDGYFERLRAKL-NH2			-3	JBT0975
886	Ac-FQSKGNVFNDGYFERLRAKL-NH2			-2	JBT0976
887	Ac-FQSKGNVFVDNYFERLRAKL-NH2			15	JBT0977
888	Ac-FQSKGNVFVDGNFERLRAKL-NH2			-10	JBT0978
526	Ac-FQSKGNVFVDGYNERLRAKL-NH2	D		44	JBT0979
93	Ac-FQSKGNVFVDGYFNRLRAKL-NH2	A	40	93	JBT0980
889	Ac-FQSKGNVFVDGYFERNRAKL-NH2			-2	JBT0982
317	Ac-FQSKGNVFVDGYFERLNAKL-NH2	C		81	JBT0983
94	Ac-FQSKGNVFVDGYFERLRNKL-NH2	A	34	100	JBT0984
890	Ac-FQSKGNVFVDGYFERLRANL-NH2			4	JBT0985
733	Ac-FQSKGNVFVDGYFERLRAKN-NH2	F		32	JBT0986
891	Ac-PQSKGNVFVDGYFERLRAKL-NH2			27	JBT0987
892	Ac-FPSKGNVFVDGYFERLRAKL-NH2			0	JBT0988
893	Ac-FQPKGNVFVDGYFERLRAKL-NH2			5	JBT0989
95	Ac-FQSPGNVFVDGYFERLRAKL-NH2	A	33	106	JBT0990
894	Ac-FQSKGPVFVDGYFERLRAKL-NH2			5	JBT0991

도면32av

서열 번호	서열	친화도 클래스	IC50 평균 [nM]	% 억제 (JBT-0477에 비 한)	사물 번호
527	Ac-FQSKGNPFVDGYFERLRAKL-NH2	D		65	JBT0992
895	Ac-FQSKGNVPVDGYFERLRAKL-NH2			1	JBT0993
896	Ac-FQSKGNVFPDGYFERLRAKL-NH2			2	JBT0994
528	Ac-FQSKGNVFVDPYFERLRAKL-NH2	D		4	JBT0995
897	Ac-FQSKGNVFVDGPFERLRAKL-NH2			3	JBT0996
529	Ac-FQSKGNVFVDGYPERLRAKL-NH2	D		8	JBT0997
530	Ac-FQSKGNVFVDGYFPRLRAKL-NH2	D		48	JBT0998
531	Ac-FQSKGNVFVDGYFEPLRAKL-NH2	D		3	JBT0999
898	Ac-FQSKGNVFVDGYFERPRAKL-NH2			3	JBT1000
899	Ac-FQSKGNVFVDGYFERLPAKL-NH2			1	JBT1001
900	Ac-FQSKGNVFVDGYFERLRPKL-NH2			15	JBT1002
901	Ac-FQSKGNVFVDGYFERLRAPL-NH2			4	JBT1003
902	Ac-FQSKGNVFVDGYFERLRAKP-NH2			8	JBT1004
532	Ac-QQSKGNVFVDGYFERLRAKL-NH2	D	28	55	JBT1005
96	Ac-FQSKGNVFVDGYFERL-Hle-AKL-NH2	A	28		JBT1006
97	Ac-FQQKGNVFVDGYFERLRAKL-NH2	A	28	98	JBT1007
318	Ac-FQSQGNVFVDGYFERLRAKL-NH2	C		83	JBT1008
98	Ac-FQSKGQVFVDGYFERLRAKL-NH2	A	38	99	JBT1009
533	Ac-FQSKGNQFVDGYFERLRAKL-NH2	D		46	JBT1010
903	Ac-FQSKGNVQVDGYFERLRAKL-NH2			8	JBT1011
534	Ac-FQSKGNVFQDGYFERLRAKL-NH2	D		14	JBT1012
535	Ac-FQSKGNVFVDQYFERLRAKL-NH2	D		23	JBT1013
904	Ac-FQSKGNVFVDGQFERLRAKL-NH2			4	JBT1014
536	Ac-FQSKGNVFVDGYQERLRAKL-NH2	D		55	JBT1015
99	Ac-FQSKGNVFVDGYFQRLRAKL-NH2	A	27	102	JBT1016

도면32aw

서열 번호	서열	친화도 클래스	IC50 평균 [nM]	% 억제 (JBT-0477에 비함)	샤물 번호
537	Ac-FQSKGNVFVDGYFEQLRAKL-NH2	D		8	JBT1017
905	Ac-FQSKGNVFVDGYFERQRAKL-NH2			12	JBT1018
538	Ac-FQSKGNVFVDGYFERLQAKL-NH2	D		76	JBT1019
319	Ac-FQSKGNVFVDGYFERLRQKL-NH2	C		88	JBT1020
906	Ac-FQSKGNVFVDGYFERLRAQL-NH2			2	JBT1021
539	Ac-FQSKGNVFVDGYFERLRAKQ-NH2	D		55	JBT1022
540	Ac-RQSKGNVFVDGYFERLRAKL-NH2	D		60	JBT1023
541	Ac-FRSKGNVFVDGYFERLRAKL-NH2	D		11	JBT1024
100	Ac-FQRKGNVFVDGYFERLRAKL-NH2	A	46	93	JBT1025
101	Ac-FQSRGNVFVDGYFERLRAKL-NH2	A	38	102	JBT1026
102	Ac-FQSKGRVFVDGYFERLRAKL-NH2	A	29	110	JBT1027
542	Ac-FQSKGNRFVDGYFERLRAKL-NH2	D		15	JBT1028
543	Ac-FQSKGNVRVDGYFERLRAKL-NH2	D		18	JBT1029
544	Ac-FQSKGNVFRDGYFERLRAKL-NH2	D		18	JBT1030
907	Ac-FQSKGNVFVDRYFERLRAKL-NH2			27	JBT1031
908	Ac-FQSKGNVFVDGRFERLRAKL-NH2			6	JBT1032
545	Ac-FQSKGNVFVDGYRERLRAKL-NH2	D		60	JBT1033
103	Ac-FQSKGNVFVDGYFRRLRAKL-NH2	A	36	103	JBT1034
218	Ac-FQSK-Nmg-AVFVAGYFARL-Nle-AKL-NH2	B	92		JBT1035
546	Ac-FQSKGNVFVDGYFERRRAKL-NH2	D		29	JBT1036
104	Ac-FQSKGNVFVDGYFERL-Nle-AKL-NH2	A	27		JBT1037
105	Ac-FQSKGNVFVDGYFERLRRKL-NH2	A		107	JBT1038
320	Ac-FQSKGNVFVDGYFERLRARL-NH2	C		95	JBT1039
321	Ac-FQSKGNVFVDGYFERLRAKR-NH2	C		84	JBT1040
734	Ac-SQSKGNVFVDGYFERLRAKL-NH2	F		37	JBT1041

도면32ax

샤불 번호	% 억제 (JBT-0477에 비 한)	IC50 평균 [nM]	친화도 클래스	서열	서열 번호
JBT1042	2		D	Ac-FSSKGNVFVDGYFERLRAKL-NH2	547
JBT1043		40	A	Ac-FQSKaNVFVDGYFERL-Nle-AKL-NH2	106
JBT1044	78		D	Ac-FQSSGNVFVDGYFERLRAKL-NH2	548
JBT1045	109	50	A	Ac-FQSKGSVFVDGYFERLRAKL-NH2	107
JBT1046	57		D	Ac-FQSKGNSFVDGYFERLRAKL-NH2	549
JBT1047	5			Ac-FQSKGNVSVDGYFERLRAKL-NH2	909
JBT1048	38		D	Ac-FQSKGNVFSDGYFERLRAKL-NH2	550
JBT1049	18		D	Ac-FQSKGNVFVDSYFERLRAKL-NH2	551
JBT1050	2			Ac-FQSKGNVFVDGSFERLRAKL-NH2	910
JBT1051	47		D	Ac-FQSKGNVFVDGYSERLRAKL-NH2	552
JBT1052	84		C	Ac-FQSKGNVFVDGYFSRLRAKL-NH2	322
JBT1053	-7			Ac-FQSKGNVFVDGYFESLRAKL-NH2	911
JBT1054	1			Ac-FQSKGNVFVDGYFERSRAKL-NH2	912
JBT1055	78		D	Ac-FQSKGNVFVDGYFERLSAKL-NH2	553
JBT1056	78		D	Ac-FQSKGNVFVDGYFERLRSKL-NH2	554
JBT1057	-9			Ac-FQSKGNVFVDGYFERLRASL-NH2	913
JBT1058	58		D	Ac-FQSKGNVFVDGYFERLRAKS-NH2	555
JBT1059	69		D	Ac-TQSKGNVFVDGYFERLRAKL-NH2	556
JBT1060	-1			Ac-FTSKGNVFVDGYFERLRAKL-NH2	914
JBT1061	73		D	Ac-FQTKGNVFVDGYFERLRAKL-NH2	557
JBT1062	51		D	Ac-FQSTGNVFVDGYFERLRAKL-NH2	558
JBT1063	72		D	Ac-FQSKGTVFVDGYFERLRAKL-NH2	559
JBT1064	49		D	Ac-FQSKGNTFVDGYFERLRAKL-NH2	560
JBT1065	-12			Ac-FQSKGNVTVDGYFERLRAKL-NH2	915
JBT1066	24		D	Ac-FQSKGNVFTDGYFERLRAKL-NH2	561

도면32ay

서열 번호	서열	친화도 클래스	IC50 평균 [nM]	% 억제 (JBT-04774에 비한)	샘플 번호
916	Ac-FQSKGNVFVDTYFERLRAKL-NH2			-2	JBT1067
917	Ac-FQSKGNVFVDGTFERLRAKL-NH2			-10	JBT1068
562	Ac-FQSKGNVFVDGYTERLRAKL-NH2	D		46	JBT1069
108	Ac-FQSKGNVFVDGYFTRLRAKL-NH2	A		97	JBT1070
918	Ac-FQSKGNVFVDGYFETLRAKL-NH2			-9	JBT1071
919	Ac-FQSKGNVFVDGYFERTRAKL-NH2			9	JBT1072
323	Ac-FQSKGNVFVDGYFERLTAKL-NH2	C		82	JBT1073
563	Ac-FQSKGNVFVDGYFERLRTKL-NH2	D		71	JBT1074
920	Ac-FQSKGNVFVDGYFERLRATL-NH2			-15	JBT1075
564	Ac-FQSKGNVFVDGYFERLRAKT-NH2	D		69	JBT1076
324	Ac-VQSKGNVFVDGYFERLRAKL-NH2	C		81	JBT1077
921	Ac-FVSKGNVFVDGYFERLRAKL-NH2			-3	JBT1078
325	Ac-FQVKGNVFVDGYFERLRAKL-NH2	C		93	JBT1079
326	Ac-FQSVGNVFVDGYFERLRAKL-NH2	C		92	JBT1080
327	Ac-FQSKGVVFVDGYFERLRAKL-NH2	C		95	JBT1081
565	Ac-FQSKaAVFVEGYFARLRAKL-NH2	D	250		JBT1082
922	Ac-FQSKGNVVVDGYFERLRAKL-NH2			17	JBT1083
109	Ac-FQSK-Nmg-AVFVAGYFARLRAKL-NH2	A	45		JBT1084
923	Ac-FQSKGNVFVDVYFERLRAKL-NH2			-10	JBT1085
924	Ac-FQSKGNVFVDGVFERLRAKL-NH2			-15	JBT1086
566	Ac-FQSKGNVFVDGYVERLRAKL-NH2	D		40	JBT1087
110	Ac-FQSKGNVFVDGYFVRLRAKL-NH2	A		99	JBT1088
925	Ac-FQSKGNVFVDGYFEVLRAKL-NH2			-4	JBT1089
567	Ac-FQSKGNVFVDGYFERVRAKL-NH2	D		37	JBT1090
219	Ac-FQSKGNVFVDGYFERLVAKL-NH2	B	53	91	JBT1091

도면32az

사물 번호	% 억제 (JBT-04770에 비 한)	IC50 평균 [nM]	친화도 클래스	서열	서열 번호
JBT1092	85		C	Ac-FQSKGNVFVDGYFERLRVKL-NH2	328
JBT1093	6			Ac-FQSKGNVFVDGYFERLRAVL-NH2	926
JBT1094	68		D	Ac-FQSKGNVFVDGYFERLRAKV-NH2	568
JBT1095	92		C	Ac-WQSKGNVFVDGYFERLRAKL-NH2	329
JBT1096	-3			Ac-FWSKGNVFVDGYFERLRAKL-NH2	927
JBT1097	55		D	Ac-FQWKGNVFVDGYFERLRAKL-NH2	569
JBT1099	58		D	Ac-FQSKGWVFVDGYFERLRAKL-NH2	570
JBT1100	45		D	Ac-FQSKGNWFVDGYFERLRAKL-NH2	571
JBT1101	55		D	Ac-FQSKGNVWVDGYFERLRAKL-NH2	572
JBT1102	4		D	Ac-FQSKGNVFWDGYFERLRAKL-NH2	573
JBT1103	15		D	Ac-FQSKGNVFVDWYFERLRAKL-NH2	574
JBT1104	0			Ac-FQSKGNVFVDGWFERLRAKL-NH2	928
JBT1105	85		C	Ac-FQSKGNVFVDGYWERLRAKL-NH2	330
JBT1106	82	59	B	Ac-FQSKGNVFVDGYFWRLRAKL-NH2	220
JBT1107	-7			Ac-FQSKGNVFVDGYFEWLRAKL-NH2	929
JBT1108	9		D	Ac-FQSKGNVFVDGYFERWRAKL-NH2	575
JBT1109	78		D	Ac-FQSKGNVFVDGYFERLWAKL-NH2	576
JBT1110	93		C	Ac-FQSKGNVFVDGYFERLRWKL-NH2	331
JBT1111	-6			Ac-FQSKGNVFVDGYFERLRAWL-NH2	930
JBT1112	87		C	Ac-FQSKGNVFVDGYFERLRAKW-NH2	332
JBT1113	101		A	Ac-YQSKGNVFVDGYFERLRAKL-NH2	111
JBT1114	12			Ac-FYSKGNVFVDGYFERLRAKL-NH2	931
JBT1115	75		D	Ac-FQYKGNVFVDGYFERLRAKL-NH2	577
JBT1117	83		C	Ac-FQSKGYVFVDGYFERLRAKL-NH2	333
JBT1118	82		C	Ac-FQSKGNYFVDGYFERLRAKL-NH2	334

도면32ba

서열 번호	서열	친화도 클래스	IC50 평균 [nM]	% 억제 (JBT-0477에 비한)	샤물 번호
112	Ac-FQSKGNVYVDGYFERLRAKL-NH2	A		99	JBT1119
578	Ac-FQSKGNVFYDGYFERLRAKL-NH2	D		11	JBT1120
932	Ac-FQSKGNVFVDYYFERLRAKL-NH2			12	JBT1121
113	Ac-FQSK-Nmg-NVFVDGYFARL-Nle-AKL-NH2	A	33		JBT1122
335	Ac-FQSKGNVFVDGYYERLRAKL-NH2	C		84	JBT1123
336	Ac-FQSKGNVFVDGFYYRLRAKL-NH2	C		85	JBT1124
933	Ac-FQSKGNVFVDGYFEYLRAKL-NH2			8	JBT1125
934	Ac-FQSKGNVFVDGYFERYRAKL-NH2			11	JBT1126
337	Ac-FQSKGNVFVDGYFERLYAKL-NH2	C		92	JBT1127
579	Ac-FQSKGNVFVDGYFERLRYKL-NH2	D		65	JBT1128
935	Ac-FQSKGNVFVDGYFERLRAYL-NH2			-7	JBT1129
580	Ac-FQSKGNVFVDGYFERLRAKY-NH2	D		76	JBT1130
114	Fam-FQSKGNVFVDGYFERLRAKL-NH2	A	20		JBT1132
115	Ac-FQSKkAVFVDGYFARLRAKL-NH2	A	31		JBT1133
116	Ac-FQSKGAVFVDGYFARLRAKL-NH2	A	39		JBT1134
221	Ac-FQSKDAVFVDGYFARLRAKL-NH2	B	82		JBT1135
117	Ac-FQSKdAVFVDGYFARLRAKL-NH2	A	40		JBT1136
118	Ac-FQSKkAVFVAGYFARLRAKL-NH2	A	40		JBT1137
222	Ac-FQSKGAVFVAGYFARLRAKL-NH2	B	64		JBT1138
223	Ac-FQSKDAVFVAGYFARLRAKL-NH2	B	87		JBT1139
119	Ac-FQSKdAVFVAGYFARLRAKL-NH2	A	36		JBT1140
120	Ac-FQSKkAVFVKGYFARLRAKL-NH2	A	34		JBT1141
224	Ac-FQSKGAVFVKGYFARLRAKL-NH2	B	53		JBT1142
225	Ac-FQSKDAVFVKGYFARLRAKL-NH2	B	58		JBT1143
121	Ac-FQSKdAVFVKGYFARLRAKL-NH2	A	34		JBT1144

도면32bb

서열 번호	서열	친화도 클래스	IC50 평균 [nM]	% 억제 (JBT-04774에 비한)	사물 번호
122	Ac-FQSKkAVFVTGYFARLRAKL-NH2	A	45		JBT1145
226	Ac-FQSKGAVFVTGYFARLRAKL-NH2	B	65		JBT1146
227	Ac-FQSKDAVFVTGYFARLRAKL-NH2	B	95		JBT1147
123	Ac-FQSKdAVFVTGYFARLRAKL-NH2	A	46		JBT1148
936	Ac-FQSKGNVFvFGYFERLRAKL-NH2		>5000		JBT1149
704	Ac-FQSKaNVFVTGYFERL-Nle-AKL-NH2	E	1154		JBT1150
937	Ac-FQSKKNVFVFGYFERLRAKD-NH2		>5000		JBT1151
735	Ac-FQSKKNVFFFGYFERLRAKL-NH2	F	4119		JBT1152
705	Ac-FQSKKNVFVFGYFERLGAKL-NH2	E	1294		JBT1153
124	Fam-Tids-FQSKGNVFVDGYFERLRAKL-NH2	A	27		JBT1154
125	Ac-FQSK-Nmg-NVFVTGYFERLRAKL-NH2	A	31		JBT1155
126	Ac-FQSKaNVFVDGYFARL-Nle-AKL-NH2	A	41		JBT1156
127	Ac-FQSKaNVFVAGYFARLRAKL-NH2	A	34		JBT1157
228	Ac-FQSKGNVFVFGYFERLRAKL-N-메틸	B	51		JBT1158
128	Ac-FQSKGNVFVFGYFERLRAKL-N-에틸	A	38		JBT1159
338	Ac-FQSK-Aib-NVFVFGYFERLRAKL-NH2	C	122		JBT1161
129	Ac-FQSKpNVFVFGYFERLRAKL-NH2	A	28		JBT1162
130	Ac-FQSKGNVFVDGYFERLRAKLC-NH2	A	28		JBT1164
339	Ac-FQSKANVFVDGYFERLRAKL-NH2	C	129	70	JBT1166
581	Ac-FQSKENVFVDGYFERLRAKL-NH2	D	94	57	JBT1167
229	Ac-FQSKFNVFVDGYFERLRAKL-NH2	B	94	86	JBT1168
340	Ac-FQSKHNVFVDGYFERLRAKL-NH2	C	127	70	JBT1169
582	Ac-FQSKlNVFVDGYFERLRAKL-NH2	D		37	JBT1170
341	Ac-FQSKLNVFVDGYFERLRAKL-NH2	C		81	JBT1171
583	Ac-FQSKPNVFVDGYFERLRAKL-NH2	D		11	JBT1173

도면32bc

사물 번호	% 억제 (JBT-04774에 비한)	IC50 평균 [nM]	친화도 클래스	서열	서열 번호
JBT1174	83	115	C	Ac-FQSKRNVFVDGYFERLRAKL-NH2	342
JBT1175	63		D	Ac-FQSKSNVFVDGYFERLRAKL-NH2	584
JBT1176	79		D	Ac-FQSKTNVFVDGYFERLRAKL-NH2	585
JBT1177	61		D	Ac-FQSKVNVFVDGYFERLRAKL-NH2	586
JBT1178	54		D	Ac-FQSKWNVFVDGYFERLRAKL-NH2	587
JBT1179	86	100	C	Ac-FQSKYNVFVDGYFERLRAKL-NH2	343
JBT1180	101	98	B	Ac-FQSKGNVFVAGYFERLRAKL-NH2	230
JBT1181	86	107	C	Ac-FQSKGNVFVGGYFERLRAKL-NH2	344
JBT1182	71		D	Ac-FQSKGNVFVIGYFERLRAKL-NH2	588
JBT1183	52		D	Ac-FQSKGNVFVLGYFERLRAKL-NH2	589
JBT1184	97	52	B	Ac-FQSKGNVFVMGYFERLRAKL-NH2	231
JBT1185	105	50	B	Ac-FQSKGNVFVPGYFERLRAKL-NH2	232
JBT1186	60		D	Ac-FQSKGNVFVQGYFERLRAKL-NH2	590
JBT1188	104		A	Ac-FQSKGNVFVSGYFERLRAKL-NH2	131
JBT1189	124	48	A	Ac-FQSKGNVFVVGYFERLRAKL-NH2	132
JBT1190	116	101	C	Ac-FQSKGNVFVWGYFERLRAKL-NH2	345
JBT1191	112	158	C	Ac-FQSKGNVFVYGYFERLRAKL-NH2	346
JBT1192	81	113	C	Ac-FQSKANVFVDGYFERLAAKL-NH2	347
JBT1193	73		D	Ac-FQSKFNVFVDGYFERLAAKL-NH2	591
JBT1194	65		D	Ac-FQSKYNVFVDGYIIERLAAKL-NH2	592
JBT1195	44		D	Ac-FQSSHNVFVDGYFERLAAKL-NH2	593
JBT1196	85		C	Ac-FQSRENVFVDGYFERLAAKL-NH2	348
JBT1197	100	63	B	Ac-FQSKGNVFVDGYFMRLAAKL-NH2	233
JBT1198	60		D	Ac-FQSAKNVFVDGYFERLRAKL-NH2	594
JBT1199	62		D	Ac-FQSFKNVFVDGYFERLAAKL-NH2	595

도면32bd

사물 번호	% 억제 (JBT-04770에 비 한)	IC50 평균 [nM]	친화도 클래스	서열	서열 번호
JBT1200	53	226	C	Ac-FQSKDNVFVHGYFERLAAKL-NH2	349
JBT1201	44		D	Ac-FQDPKNVFVDGYFERLAAKL-NH2	596
JBT1202	34		D	Ac-FQSKVNVFVDGYFERLAAKL-NH2	597
JBT1203	50		D	Ac-FQSIKNVFVDGYFERLAAKL-NH2	598
JBT1204	106	98	B	Ac-YQSKNNVFVDGYFERLAAKL-NH2	234
JBT1205	85	128	C	Ac-FQSKERVFVDGYFERLAAKL-NH2	350
JBT1206	104	74	B	Ac-FQSKGHVFVDGYFERLAAKL-NH2	235
JBT1207	48		D	Ac-FQSKITNIFVDGYFERLAAKL-NH2	599
JBT1208	37		D	Ac-FQSHYNVFVDGYFERLAAKL-NH2	600
JBT1209	32		D	Ac-FQSKENVFVDGYFDRLAAKL-NH2	601
JBT1210	61	137	C	Ac-FQSKQNVFVDGYFERLAIKL-NH2	351
JBT1211	79	105	C	Ac-FQSKYNVFVDGYFERLAVKL-NH2	352
JBT1212	86		C	Ac-FQSRNNVFVDGYFERLAAKL-NH2	353
JBT1213	64	122	C	Ac-FQSRQNVFVDGYFERLAAKL-NH2	354
JBT1214	64	132	C	Ac-FQSKQNVFVDGYFERLAAKL-NH2	355
JBT1215	72	171	C	Ac-FQSSKNVFVDGYFERLAAKL-NH2	356
JBT1216	70	117	C	Ac-FQSKENVFVDGYFERLAAKL-NH2	357
JBT1217	63		D	Ac-FQSHHNVFVDGYFERLAAKL-NH2	602
JBT1218	72		D	Ac-FQSYKNVFVDGYFERLAAKL-NH2	603
JBT1219	76	90	B	Ac-FQSKKNVFVDGYFERLAAKL-NH2	236
JBT1220	85	85	B	Ac-FQTKHNVFVDGYFERLAAKL-NH2	237
JBT1221	67		D	Ac-FQSKHNVFVDGYFERLAFKL-NH2	604
JBT1222	85	82	B	Ac-FQSKYNVFVDGYFERLAAKL-NH2	238
JBT1223	54		D	Ac-FQSFKHVFVDGYFERLAAKL-NH2	605
JBT1224	57		D	Ac-FQSKANVHVDGYFERLAAKL-NH2	606

도면32be

서열 번호	서열	친화도 클래스	IC50 평균 [nM]	% 억제 (JBT-0477에 비한)	샤물 번호
358	Ac-FQSKDNVFVDGYFERLAAKL-NH2	C	107	77	JBT1225
938	Ac-LQSKTNVFVDGYFERLAAKL-NH2			26	JBT1226
239	Ac-FQSKNNVFVDGYFERLAAKL-NH2	B	76	99	JBT1227
240	Ac-FQSKDHVFVDGYFERLAAKL-NH2	B	55	99	JBT1228
241	Ac-FQSKHNVFVDGYFERLARKL-NH2	B	92	93	JBT1229
607	Ac-FQSKSNVFVDGYFERLAAKL-NH2	D		52	JBT1230
242	Ac-FQSKHNVFVDGYFERLAAKL-NH2	B	92	68	JBT1231
608	Ac-FQSHKNVFVDGYFERLAAKL-NH2	D		47	JBT1232
939	Ac-FQSKFNVFVDGYTERLAAKL-NH2			11	JBT1233
609	Ac-FQSKDNVFVDGYFERLAAKF-NH2	D		63	JBT1234
610	Ac-FQSKMNVFVDGYFERLAAKL-NH2	D		65	JBT1235
706	Ac-FQSVKNVFVDGYFERLAAKL-NH2	E		41	JBT1236
940	Ac-FQSKHNVFVDGHFERLAAKL-NH2			14	JBT1238
611	Ac-FQSAYNVFVDGYFERLAAKL-NH2	D		61	JBT1240
612	Ac-FQSKGNWFVDGYFERLAAKL-NH2	D		53	JBT1241
707	Ac-FQSKVAVFVDGYFERLAAKL-NH2	E		49	JBT1242
613	Ac-FQSAKNVFVDGYFVRLRAKL-NH2	D		59	JBT1243
614	Ac-FQSKTNVFVDGYFERLAAKL-NH2	D		62	JBT1244
736	Ac-FQSKKDVFVDGYFERLAAKL-NH2	F		34	JBT1245
615	Ac-FQSKHVVFVDGYFERLAAKL-NH2	D		68	JBT1246
737	Ac-FQSKSNVFVDGYFERLAARL-NH2	F		39	JBT1247
941	Ac-FQSVHNVFVDGYFERPAAKL-NH2			6	JBT1248
942	Ac-FQSKYNVFVDEYFERLAAKL-NH2			7	JBT1249
359	Ac-FQSKDNVFVDGYFERLAARL-NH2	C	216	66	JBT1250
616	Ac-FQSKKHVFVDGYFERLAAKL-NH2	D		60	JBT1251

도면32bf

사물 번호	% 억제 (JBT-0477에 비 한)	IC50 평균 [nM]	친화도 클래스	서열	서열 번호
JBT1252	37		F	Ac-FQSTKNVFVDGYFERLAAKL-NH2	738
JBT1253	30		D	Ac-FQSDKNVFVDGYFERLAAKL-NH2	617
JBT1254	93	47	A	Ac-FQSKHHVFVDGYFERLAAKL-NH2	133
JBT1255	41		D	Ac-FQSNKNVFVDGYFERLAAKL-NH2	618
JBT1256	88	125	C	Ac-FQSKHNVYVDGYFERLAAKL-NH2	360
JBT1257	40		D	Ac-FQSHKNVFVEGYFERLAAKL-NH2	619
JBT1258	13			Ac-FQSKPNVFVDGYFERLAAKL-NH2	943
JBT1259	23		D	Ac-FQSYKDVFVDGYFERLATKL-NH2	620
JBT1260	113	50	A	Ac-FQSRRGVFVDGYFERLAAKL-NH2	134
JBT1261	81	98	B	Ac-FQSKLNVFVDGYFERLAAKL-NH2	243
JBT1262	15		D	Ac-FQSKNNFVDGYFERLAARL-NH2	621
JBT1263	78	152	C	Ac-FQSKYNIFVDGYFERLAAKL-NH2	361
JBT1264	39		F	Ac-YQSKQNVFVDGYFERLAAKL-NH2	739
JBT1265	58		D	Ac-FQSEQNVFVDGYFERLAAKL-NH2	622
JBT1266	53		D	Ac-FQSEHNVFVDGYFERLAAKL-NH2	623
JBT1267	55	219	C	Ac-FQSKNDVFVDGYFERLAAKL-NH2	362
JBT1268	-8			Ac-HQQFKNVFVDGYFERLAAKL-NH2	944
JBT1269	58	155	C	Ac-FQSGGNVFVDGYFERLAAKL-NH2	363
JBT1270	61		D	Ac-FQSEKNVFVDGYFERLAAKL-NH2	624
JBT1271	21		D	Ac-FQSKKNVFVDGYFERLAFKL-NH2	625
JBT1272	58		D	Ac-FQSKRNVFVDGYFERLAAKL-NH2	626
JBT1273	74	106	C	Ac-FQSPKNVFVDGYFERLAAKL-NH2	364
JBT1274	28		D	Ac-FQSGKNVFVDGYFERLAAKL-NH2	627
JBT1275	68	123	C	Ac-FQSPKNVFVDGYFERLRAKL-NH2	365
JBT1277	-4			Ac-FQSKHNVFVDAYFERLRAKL-NH2	945

도면32bg

서열 번호	서열	친화도 클래스	IC50 평균 [nM]	% 억제 (JBT-04774에 비한)	사물 번호
244	Ac-FQSVGNVFVDGYFERLSAKL-NH2	B	73	74	JBT1278
628	Ac-FQSYKNVFVDGYFERLFAKL-NH2	D		13	JBT1279
366	Ac-FQSRKNVFVDGYFERLRAKL-NH2	C	160	56	JBT1280
946	Ac-FQSKKNVFVDGYSERLRAKL-NH2			-5	JBT1281
367	Ac-FQSKKRVFVDGYFERLRAKL-NH2	C	176	52	JBT1282
740	Ac-FQSFENVFVDGYFERLHAKL-NH2	F		36	JBT1283
368	Ac-FQSIKNVFVDGYFERLRAKL-NH2	C	186	100	JBT1285
245	Ac-FQSYKNVFVDGYFERLRAKL-NH2	B	69	113	JBT1286
369	Ac-CQSKGNVFVDGYFERLRAKL-NH2	C		86	JBT1287
629	Ac-FCSKGNVFVDGYFERLRAKL-NH2	D		32	JBT1288
135	Ac-FQCKGNVFVDGYFERLRAKL-NH2	A		96	JBT1289
630	Ac-FQSCGNVFVDGYFERLRAKL-NH2	D		64	JBT1290
136	Ac-FQSKGCVFVDGYFERLRAKL-NH2	A	30	109	JBT1292
631	Ac-FQSKGNCFVDGYFERLRAKL-NH2	D		17	JBT1293
947	Ac-FQSKGNVCVDGYFERLRAKL-NH2			-6	JBT1294
948	Ac-FQSKGNVFCDGYFERLRAKL-NH2			1	JBT1295
632	Ac-FQSKGNVFVCGYFERLRAKL-NH2	D		65	JBT1296
633	Ac-FQSKGNVFVDCYFERLRAKL-NH2	D		66	JBT1297
949	Ac-FQSKGNVFVDGCFERLRAKL-NH2			-20	JBT1298
137	Ac-FQSKGNVFVDGYCERLRAKL-NH2	A	28	111	JBT1299
138	Ac-FQSKGNVFVDGYFCRLRAKL-NH2	A		113	JBT1300
950	Ac-FQSKGNVFVDGYFECLRAKL-NH2			-18	JBT1301
634	Ac-FQSKGNVFVDGYFERCRAKL-NH2	D		27	JBT1302
139	Ac-FQSKGNVFVDGYFERLCAKL-NH2	A		97	JBT1303
370	Ac-FQSKGNVFVDGYFERLRCKL-NH2	C		85	JBT1304

도면32bh

사물 번호	% 억제 (JBT-04774에 비한)	IC50 평균 [nM]	친화도 클래스	서열	서열 번호
JBT1305	-6			Ac-FQSKGNVFVDGYFERLRACL-NH2	951
JBT1306	65		D	Ac-FQSKGNVFVDGYFERLRAKC-NH2	635
JBT1307	103		A	Ac-FQSKANVFVDGYFERLCAKL-NH2	140
JBT1308	86		C	Ac-FQSKFNVFVDGYFERLCAKL-NH2	371
JBT1309	92		C	Ac-FQSKYNVFVDGYHERLCAKL-NH2	372
JBT1310	95		C	Ac-FQSSHNVFVDGYFERLCAKL-NH2	373
JBT1311	83		C	Ac-FQSRENVFVDGYFERLCAKL-NH2	374
JBT1312	99		A	Ac-FQSKGNVFVDGYFMRLCAKL-NH2	141
JBT1313	87		C	Ac-FQSCKNVFVDGYFERLRAKL-NH2	375
JBT1314	55		D	Ac-FQSFKNVFVDGYFERLCAKL-NH2	636
JBT1315	95	35	A	Ac-FQSKDNVFVHGYFERLCAKL-NH2	142
JBT1316	90		C	Ac-FQDPKNVFVDGYFERLCAKL-NH2	376
JBT1317	76		D	Ac-FQSKVNVFVDGYFERLCAKL-NH2	637
JBT1318	73		D	Ac-FQSIKNVFVDGYFERLCAKL-NH2	638
JBT1319	108	20	A	Ac-YQSKNNVFVDGYFERLCAKL-NH2	143
JBT1320	110	271	D	Ac-FQSKERVFVDGYFERLCAKL-NH2	639
JBT1321	117	31	A	Ac-FQSKGHVFVDGYFERLCAKL-NH2	144
JBT1322	89		C	Ac-FQSKTNIFVDGYFERLCAKL-NH2	377
JBT1323	87	171	C	Ac-FQSHYNVFVDGYFERLCAKL-NH2	378
JBT1324	92	424	D	Ac-FQSKENVFVDGYFDRLCAKL-NH2	640
JBT1325	62		D	Ac-FQSKQNVFVDGYFERLCIKL-NH2	641
JBT1326	61		D	Ac-FQSKYNVFVDGYFERLCVKL-NH2	642
JBT1328	93		C	Ac-FQSRQNVFVDGYFERLCAKL-NH2	379
JBT1329	96	20	A	Ac-FQSKQNVFVDGYFERLCAKL-NH2	145
JBT1330	86		C	Ac-FQSSKNVFVDGYFERLCAKL-NH2	380

도면32bi

서열 번호	서열	친화도 클래스	IC50 평균 [nM]	% 억제 (JBT-0477에 비 한)	샤물 번호
146	Ac-FQSKENVFVDGYFERLCAKL-NH2	A		100	JBT1331
381	Ac-FQSHHNVFVDGYFERLCAKL-NH2	C		87	JBT1332
643	Ac-FQSYKNVFVDGYFERLCAKL-NH2	D		72	JBT1333
147	Ac-FQSKKNVFVDGYFERLCAKL-NH2	A	23	103	JBT1334
382	Ac-FQTKHNVFVDGYFERLCAKL-NH2	C	247	111	JBT1335
644	Ac-FQSKHNVFVDGYFERLCFKL-NH2	D		61	JBT1336
645	Ac-FQSKYNVFVDGYFERLCAKL-NH2	D		74	JBT1337
646	Ac-FQSFKHVFVDGYFERLCAKL-NH2	D		46	JBT1338
383	Ac-FQSKANVHVDGYFERLCAKL-NH2	C		88	JBT1339
952	Ac-FQSCKNVFVDGYFERLCAKL-NH2			7	JBT1340
148	Ac-FQSKDNVFVDGYFERLCAKL-NH2	A	49	98	JBT1341
647	Ac-LQSKTNVFVDGYFERLCAKL-NH2	D		75	JBT1342
149	Ac-FQSKNNVFVDGYFERLCAKL-NH2	A		99	JBT1343
150	Ac-FQSKDHVFVDGYFERLCAKL-NH2	A		95	JBT1344
384	Ac-FQSKHNVFVDGYFERLCRKL-NH2	C		91	JBT1345
648	Ac-FQSKCNVFVDGYFERLCAKL-NH2	D		20	JBT1346
151	Ac-FQSKHNVFVDGYFERLCAKL-NH2	A	24	95	JBT1347
385	Ac-FQSKSNVFVDGYFERLCAKL-NH2	C		91	JBT1348
386	Ac-FQSHKNVFVDGYFERLCAKL-NH2	C		82	JBT1349
649	Ac-FQSKFNVFVDGYTERLCAKL-NH2	D		35	JBT1350
387	Ac-FQSKDNVFVDGYFERLCAKF-NH2	C		85	JBT1351
388	Ac-FQSKMNVFVDGYFERLCAKL-NH2	C		85	JBT1352
650	Ac-FQSVKNVFVDGYFERLCAKL-NH2	D		51	JBT1353
389	Ac-FQSAKNVFVDGYFERLCAKL-NH2	C		86	JBT1354
708	Ac-FQSKENVFVDGYFERLCYKL-NH2	E		49	JBT1356

도면32bj

샤물 번호	% 억제 (JBT-04774에 비 한)	IC50 평균 [nM]	친화도 클래스	서열	서열 번호
JBT1357	52		D	Ac-FQSKGNWFVDGYFERLCAKL-NH2	651
JBT1358	20		D	Ac-FQSKVAVFVDGYFERLCAKL-NH2	652
JBT1359	24			Ac-FQSAYNVFVDGYFERLCAKL-NH2	953
JBT1360	25		D	Ac-FQSCKNVFVDGYFVRLRAKL-NH2	653
JBT1361	75		D	Ac-FQSKTNVFVDGYFERLCAKL-NH2	654
JBT1362	76		D	Ac-FQSKKDVFVDGYFERLCAKL-NH2	655
JBT1363	88		C	Ac-FQSKHVVFVDGYFERLCAKL-NH2	390
JBT1364	64		D	Ac-FQSKSNVFVDGYFERLCARL-NH2	656
JBT1365	-4			Ac-FQSVHNVFVDGYFERPCAKL-NH2	954
JBT1366	21			Ac-FQSKYNVFVDEYFERLCAKL-NH2	955
JBT1367	83		C	Ac-FQSKDNVFVDGYFERLCARL-NH2	391
JBT1368	89		C	Ac-FQSKKHVFVDGYFERLCAKL-NH2	392
JBT1369	40		E	Ac-FQSTKNVFVDGYFERLCAKL-NH2	709
JBT1370	52		D	Ac-FQSDKNVFVDGYFERLCAKL-NH2	657
JBT1371	96		A	Ac-FQSKHHVFVDGYFERLCAKL-NH2	152
JBT1372	83		C	Ac-FQSNKNVFVDGYFERLCAKL-NH2	393
JBT1373	96		A	Ac-FQSKHNVYVDGYFERLCAKL-NH2	153
JBT1374	71		D	Ac-FQSHKNVFVEGYFERLCAKL-NH2	658
JBT1375	45		D	Ac-FQSKPNVFVDGYFERLCAKL-NH2	659
JBT1376	47		D	Ac-FQSYKDVFVDGYFERLCTKL-NH2	660
JBT1377	101		A	Ac-FQSRRGVFVDGYFERLCAKL-NH2	154
JBT1378	70		D	Ac-FQSKLNVFVDGYFERLCAKL-NH2	661
JBT1379	40		D	Ac-FQSKNNFFVDGYFERLCARL-NH2	662
JBT1380	66		D	Ac-FQSKYNIFVDGYFERLCAKL-NH2	663
JBT1381	106	19	A	Ac-YQSKQNVFVDGYFERLCAKL-NH2	155

도면32bk

서열 번호	서열	친화도 클래스	IC50 평균 [nM]	% 억제 (JBT-04774에 비한)	사물 번호
156	Ac-FQSEHNVFVDGYFERLCAKL-NH2	A		103	JBT1383
157	Ac-FQSKNDVFVDGYFERLCAKL-NH2	A	23	105	JBT1384
664	Ac-HQQFKNVFVDGYFERLCAKL-NH2	D		54	JBT1385
246	Ac-FQSGGNVFVDGYFERLCAKL-NH2	B	76	107	JBT1386
394	Ac-FQSEKNVFVDGYFERLCAKL-NH2	C		92	JBT1387
395	Ac-FQSKKNVFVDGYFERLCFKL-NH2	C		90	JBT1388
158	Ac-FQSKRNVFVDGYFERLCAKL-NH2	A	23	106	JBT1389
159	Ac-FQSPKNVFVDGYFERLCAKL-NH2	A		96	JBT1390
160	Ac-FQSGKNVFVDGYFERLCAKL-NH2	A		99	JBT1391
396	Ac-FQSKQNVFVDGYFERLSAKL-NH2	C	235	68	JBT1392
397	Ac-FQSKKNVFVDGYFERLSAKL-NH2	C	205	67	JBT1393
398	Ac-FQSKDNVFVDGYFERLSAKL-NH2	C	191	88	JBT1394
399	Ac-FQSKHNVFVDGYFERLSAKL-NH2	C	173	100	JBT1395
161	Ac-FQSK-Nmg-NVFVAGYFERLRAKL-NH2	A	29		JBT1396
710	Ac-F-Aib-SKGNVFVDGYFERL-Aib-AKL-NH2	E	1569	5	JBT1397
665	Ac-FQ-Aib-KGNVFVDGYFERL-Aib-AKL-NH2	D	660	5	JBT1398
162	Ac-FQS-Aib-GNVFVDGYFERL-Aib-AKL-NH2	A	40	109	JBT1399
163	Ac-FQSK-Aib-NVFVDGYFERL-Aib-AKL-NH2	A	46	92	JBT1400
666	Ac-FQSKG-Aib-VFVDGYFERL-Aib-AKL-NH2	D	913	-7	JBT1401
711	Ac-FQSKGN-Aib-FVDGYFERL-Aib-AKL-NH2	E	1144	-8	JBT1402
956	Ac-FQSKGNV-Aib-VDGYFERL-Aib-AKL-NH2		>5000	-6	JBT1403
667	Ac-FQSKGNVF-Aib-DGYFERL-Aib-AKL-NH2	D	329	13	JBT1404
668	Ac-FQSKGNVFV-Aib-GYFERL-Aib-AKL-NH2	D	313	6	JBT1405
669	Ac-FQSKGNVFVD-Aib-YFERL-Aib-AKL-NH2	D	610	3	JBT1406
957	Ac-FQSKGNVFVDG-Aib--Aib-AKL-NH2		>5000	6	JBT1407

도면32b1

서열 번호	서열	친화도 클래스	IC50 평균 [nM]	% 억제 (JBT-0477에 비한)	샤물 번호
247	Ac-FQSKGNVFVDGY-Aib-ERL-Aib-AKL-NH2	B	92	78	JBT1408
248	Ac-FQSKGNVFVDGYF-Aib-RL-Aib-AKL-NH2	B	65	104	JBT1409
958	Ac-FQSKGNVFVDGYFE-Aib-L-Aib-AKL-NH2		>5000	-3	JBT1410
959	Ac-FQSKGNVFVDGYFERL-Aib-A-Aib-L-NH2		>5000	-1	JBT1413
400	Ac-FQSKGNVFVDGYFERL-Aib-AK-Aib-NH2	C	119	86	JBT1414
741	Ac-Aib-QSKGNVFVDGYFERL-Aib-AKL-NH2	F	3668	5	JBT1415
164	Ac-FQSK-Nmg-NVFVDGYFERL-Aib-AKL-NH2	A	9		JBT1584
165	Ac-FQSK-Nmg-NVFVTGYFERL-Aib-AKL-NH2	A	12		JBT1585
166	AO-FQSKGNVFVDGYFERL-Aib-AKL-NH2	A	25		JBT1586
167	Ac-FQSKGNVFVDGYFERL-Aib-AKLC-NH2	A	45		JBT1587
401	Ac-FQSKGNVFV[CGYFERL-Aib-AKLC]-NH2	C	106		JBT1590
168	Ac-FQSKGNVFVDGYF[CRL-Aib-AKLC]-NH2	A	40		JBT1591
402	Ac-[CFQSKGNVFVDGYFERLC]AKL-NH2	C	105		JBT1592
670	Ac-FQSK[CNVFVDGYFERLC]AKL-NH2	D	462		JBT1593
671	Ac-FQSKGNVFV[CGYFERLC]AKL-NH2	D	952		JBT1594
403	Ac-[CFQSKGNVFVC]GYFERL-Aib-AKL-NH2	C	249		JBT1595
404	Ac-[CFQSKGC]VFVEGYFERL-Aib-AKL-NH2	C	129		JBT1596
960	Ac-DGYFERLRAKL-NH2		>5000		JBT1597
961	Ac-FQSKKNV-NH2		>5000		JBT1598
169	Ac-FQSKGNIFVDGYFERLHAKL-NH2	A	35		JBT1843
170	Ac-FQSKNNVFVDGYFKRLRAKL-NH2	A	41		JBT1844
249	Ac-FQSYKHVFVDGYFERLRAKL-NH2	B	89		JBT1845
250	Ac-FQSKGIVFVDGYFKRLRAKL-NH2	B	54		JBT1846
171	Ac-YQTKGNVFVDGYFERLRAKL-NH2	A	30		JBT1847
405	Ac-FQSKYNVFVDGYFERLFAKL-NH2	C	112		JBT1848

도면32bm

서열 번호	서열	친화도 클래스	IC50 평균 [nM]	% 억제 (JBT-0477에 비 한)	사물 번호
172	Ac-FQTKDNVHVDGYFERLRAKL-NH2	A	44		JBT1849
251	Ac-FQSYKRVFVDGYFERLRAKL-NH2	B	56		JBT1850
173	Ac-LQQKGNVFVDGYFERLRAKL-NH2	A	49		JBT1851
174	PEG-FQSKGNVFVDGYFERL-Aib-AKL-NH2	A	19		JBT1852
175	PEG-FQSKGNVFVDGYFERL-Aib-AKL-NH2	A	42		JBT1853
176	Ac-FQSKGNVFVDGYFERL-Aib-AKLC(PEG)-NH2	A	16		JBT1854
252	Ac-FQSKGNVFVDGYFERL-Aib-AKLC(PEG)-NH2	B	96		JBT1855
177	Ac-FQSKpNVFVDGYFERL-Aib-AKL-NH2	A	17		JBT1856
178	Ac-FQSKpNVHVDGYFERL-Aib-AKL-NH2	A	14		JBT1857
179	Ac-PFQSKGNVFVDGYFERLRAKL-NH2	A	20		JBT2266
180	Ac-PEFQSKGNVFVDGYFERLRAKL-NH2	A	19		JBT2267
181	Ac-PFQSK-Nme-NVFVDGYFERL-Aib-AKL-NH2	A	18		JBT2268

도면33

사물 번호	EC50 (nM)	서열	서열 번호
JBT0051	1.0	비오티닐-Tds-SGVGRLQVAFQSKKNVFVFGYFERLRAKLTS-NH2	962
JBT0055	1.7	Ac-SGVGRLQVAFQSKKNVFVFGYFERLRAKLTS-Tds-락아신(비오틴)-NH2	963
JBT0131	16.8	비오티닐-Tds-AFQSKKNVFVFGYFERLRAK-NH2	964
JBT0132	2.2	비오티닐-Tds-FQSKKNVFVFGYFERLRAKL-NH2	965
JBT0133	>25000	비오티닐-Tds-Tds-QSKKNVFVFGYFERLRAKLT-NH2	966
JBT0134	>1000	비오티닐-Tds-QSKKNVFVFGYFERLRAK-NH2	967
JBT0166	0.9	비오티닐-Tds-KKFQSKKNVFVFGYFERLRAKLKK-NH2	968
JBT0167*	574.8	비오티닐-Tds-GKNAKFYLFESLRQVKFVFR-NH2	969
JBT0168*	152.3	비오티닐-Tds-YKFSFNKELFKQARLRFVGV-NH2	970
JBT0173	>5000	비오티닐-Tds-SGVGRLQVAFQSKKNVFVFG-NH2	971
JBT0403	1.4	비오티닐-Tds-FQSKKNVFVDGYFERLRAKL-NH2	972

도면34a

서열 번호	서열	친화도 클래스	IC50 [nm]	서물 번호
1047	Ac-SGASRYKWF[CGMRDMKGTMSC]VWVKFRYDTS-NH2	B	59	JBT0120
1213	Ac-SGASRYKWFCGMRDMKGTMSCVWVKFRYDTS-NH2		>206	JBT0247
1001	Ac-KKSGASRYKWF[CGMRDMKGTMSC]VWVKFRYDTSKK-NH2	A	30	JBT0248
1214	Ac-KKSGASRYKWFCGMRDMKGTMSKK-NH2		>50000	JBT0249
1201	Ac-KKSRYKWFCGMRDMKGTMSCVWKK-NH2	F	8766	JBT0250
1202	Ac-KKKWFCGMRDMKGTMSCVWVKFKK-NH2	F	5207	JBT0251
1215	Ac-KKCGMRDMKGTMSCVWVKFRYDKK-NH2		>50000	JBT0252
1216	Ac-KKMRDMKGTMSCVWVKFRYDTSKK-NH2		>207	JBT0253
1002	Ac-SGASRYKWF[CGMRDMKGTMSC]VWVKFRY-NH2	A	32	JBT0319
1075	Ac-SGASRYKWF[CGMRDMKGTMSC]VWVKFRY-NH2	C	109	JBT0319
1103	Ac-SGASRYKWF[CGMRDMKGTMSC]VWVK-NH2	D	977	JBT0320
1217	Ac-SGASRYKWF[CGMRDMKGTMSC]V-NH2		>50000	JBT0321
1218	Ac-SGASRYKWFCGMRDMKGTM-NH2		>50000	JBT0322
1076	Ac-SRYKWF[CGMRDMKGTMSC]VWVKFRYDTS-NH2	C	118	JBT0323
1155	Ac-KWF[CGMRDMKGTMSC]VWVKFRYDTS-NH2	E	1931	JBT0324
1219	Ac-[CGMRDMKGTMSC]VWVKFRYDTS-NH2		>50000	JBT0325
1220	Ac-RDMKGTMSCVWVKFRYDTS-NH2		>10000	JBT0326
1221	Ac-RDMKGTMSCVWVKFRYDTS-NH2		>50000	JBT0326
1222	Ac-SGASRYKWFCGMRDMKGTMS-NH2		>50000	JBT0327
1223	Ac-SRYKWF[CGMRDMKGTMSC]VW-NH2		>50000	JBT0328
1156	Ac-KWF[CGMRDMKGTMSC]VWVKF-NH2	E	4574	JBT0329
1203	Ac-KWF[CGMRDMKGTMSC]VWVKF-NH2	F	9396	JBT0329
1224	Ac-[CGMRDMKGTMSC]VWVKFRYD-NH2		>50000	JBT0330
1225	Ac-MRDMKGTMSCVWVKFRYDTS-NH2		>10001	JBT0331
1226	Ac-MRDMKGTMSCVWVKFRYDTS-NH2		>50000	JBT0331
1206	Ac-SRYKWFCGMRDMKGTMSCVW-NH2	G	29746	JBT0332
1207	Ac-KWFCGMRDMKGTMSCVWVKF-NH2	G	18840	JBT0333
1227	Ac-CGMRDMKGTMSCVWVKFRYD-NH2		>10002	JBT0334
1204	Ac-SGASRYKWFSGMRDMKGTMSSVWVKFRYDTS-NH2	F	6413	JBT0409

도면34b

사물 번호	IC50 [nm]	친화도 클래스	서열	서열 번호
JBT0410	24801	G	Ac-SGASRYKWFSG-Nle-RD-Nle-KGT-Nle-SSVWVKFRYDTS-NH2	1208
JBT0411	685	D	Ac-SGASRYKWF[CG-Nle-RD-Nle-KGT-Nle-SC]VWVKFRYDTS-NH2	1104
JBT0412	16103	G	Ac-KWF[CG-Nle-RD-Nle-KGT-Nle-SC]VWVKF-NH2	1209
JBT0413	>50000		Ac-KWFSGMRDMKGTMSSVWVKF-NH2	1228
JBT0414	5693	F	Ac-KWFSG-Nle-RD-Nle-KGT-Nle-SSVWVKF-NH2	1205
JBT0415	50	A	Ac-SRYKWF[CGMRDMKGTMSC]VWVKF-NH2	1003
JBT0416	187	C	Ac-SRYKWF[CG-Nle-RD-Nle-KGT-Nle-SC]VWVKF-NH2	1077
JBT0417	>50000		Ac-SRYKWFSGMRDMKGTMSSVWVKF-NH2	1229
JBT0418	43941	G	Ac-SRYKWF SG-Nle-RD-Nle-KGT-Nle-SS VWVKF-NH2	1210
JBT0435*	31732	G	Ac-RKRDVSGKM[CWSGFGSKWFRC]ADMMTYYSVT-NH2	1211
JBT0436*	45925	G	Ac-RWSGKSTYS[CDAMVRRMGMKC]FSFGWTDVYK-NH2	1212
JBT0437	60	B	Ac-ARYKWF[CGMRDMKGTMSC]VWVKF-NH2	1048
JBT0438	194	C	Ac-SAYKWF[CGMRDMKGTMSC]VWVKF-NH2	1078
JBT0439	291	D	Ac-SRAKWF[CGMRDMKGTMSC]VWVKF-NH2	1105
JBT0440	393	D	Ac-SRYAWF[CGMRDMKGTMSC]VWVKF-NH2	1106
JBT0441	>5000		Ac-SRYKAF[CGMRDMKGTMSC]VWVKF-NH2	1230
JBT0442	>5000		Ac-SRYKWA[CGMRDMKGTMSC]VWVKF-NH2	1231
JBT0443	2861	E	Ac-SRYKWF AGMRDMKGTMSC VWVKF-NH2	1157
JBT0444	18	A	Ac-SRYKWF[CAMRDMKGTMSC]VWVKF-NH2	1004
JBT0444	31	A	Ac-SRYKWF[CAMRDMKGTMSC]VWVKF-NH2	1005
JBT0445	760	D	Ac-SRYKWF[CGARDMKGTMSC]VWVKF-NH2	1107
JBT0446	152	C	Ac-SRYKWF[CGMADMKGTMSC]VWVKF-NH2	1079
JBT0447	3249	E	Ac-SRYKWF[CGMRAMKGTMSC]VWVKF-NH2	1158
JBT0448	315	D	Ac-SRYKWF[CGMRDAKGTMSC]VWVKF-NH2	1108
JBT0449	104	C	Ac-SRYKWF[CGMRDMAGTMSC]VWVKF-NH2	1080
JBT0450	1061	E	Ac-SRYKWF[CGMRDMKATMSC]VWVKF-NH2	1159
JBT0451	131	C	Ac-SRYKWF[CGMRDMKGAMSC]VWVKF-NH2	1081
JBT0452	313	D	Ac-SRYKWF[CGMRDMKGTASC]VWVKF-NH2	1109
JBT0453	343	D	Ac-SRYKWF[CGMRDMKGTMAC]VWVKF-NH2	1110
JBT0454	4963	E	Ac-SRYKWF CGMRDMKGTMSA VWVKF-NH2	1160
JBT0455	99	B	Ac-SRYKWF[CGMRDMKGTMSC]AWVKF-NH2	1049
JBT0456	>5000		Ac-SRYKWF[CGMRDMKGTMSC]VAVKF-NH2	1232

도면34c

사물 번호	IC50 [nm]	컨화도 클랙스	서열	서열 번호
JBT0457	2896	E	Ac-SRYKWF[CGMRDMKGTMSC]VWAKF-NH2	1161
JBT0458	148	C	Ac-SRYKWF[CGMRDMKGTMSC]VWVAF-NH2	1082
JBT0459	150	C	Ac-SRYKWF[CGMRDMKGTMSC]VWVKA-NH2	1083
JBT0460	88	B	Ac-RYKWF[CGMRDMKGTMSC]VWVKF-NH2	1050
JBT0461	503	D	Ac-YKWF[CGMRDMKGTMSC]VWVKF-NH2	1111
JBT0462	>5000		Ac-SRYKWFGM[CRDMKGTMSC]VWVKF-NH2	1233
JBT0463	>5000		Ac-SRYKWFGMRD[CMKGTMSC]VWVKF-NH2	1234
JBT0464	>5000		Ac-SRYKWFGMRDMK[CGTMSC]VWVKF-NH2	1235
JBT0465	>5000		Ac-SRYKWF[CGMRDMKGTC]MSVWVKF-NH2	1236
JBT0466	>5000		Ac-SRYKWF[CGMRDMKC]GTMSVWVKF-NH2	1237
JBT0467	>5000		Ac-SRYKWF[CGMRDC]MKGTMSVWVKF-NH2	1238
JBT0468	>5000		Ac-SRYKWFG[CMRDMKGTMC]SVWVKF-NH2	1239
JBT0469	>5000		Ac-SRYKWFGM[CRDMKGTC]MSVWVKF-NH2	1240
JBT0470	1472	E	Ac-SRYKWFGMR[CDMKGC]TMSVWVKF-NH2	1162
JBT0617	489	D	Ac-SRYKWF[homoC-GMRDMKGTMSC]VWVKF-NH2	1112
JBT0618	2073	E	Ac-SRYKWF[CGMRDMKGTMS-homoC]VWVKF-NH2	1163
JBT0619	>5000		Ac-SRYKWF[homoC-GMRDMKGTMS-homoC]VWVKF-NH2	1241
JBT0620	>5000		Ac-SRYKWF[Dap-GMRDMKGTMS-D]VWVKF-NH2	1242
JBT0623	>5000		Ac-SRYKWF[K-GMRDMKGTMS-D]VWVKF-NH2	1243
JBT0625	>5000		Ac-SRYKWF[CMRDMKGTMSC]VWVKF-NH2	1244
JBT0626	1078	E	Ac-SRYKWF[CGMRDKGTMSC]VWVKF-NH2	1164
JBT0627	2169	E	Ac-SRYKWF[CGMRDMGTMSC]VWVKF-NH2	1165
JBT0628	3611	E	Ac-SRYKWF[CGMRDMKGMSC]VWVKF-NH2	1166
JBT0629	4076	E	Ac-SRYKWF[eGMRDMKGTMSC]VWVKF-NH2	1167
JBT0631	343	D	Ac-SRYKWF[CGmRDMKGTMSC]VWVKF-NH2	1113
JBT0632	>5000		Ac-SRYKWF[CGMrDMKGTMSC]VWVKF-NH2	1245
JBT0633	2131	E	Ac-SRYKWF[CGMRdMKGTMSC]VWVKF-NH2	1168
JBT0634	61	B	Ac-SRYKWF[CGMRDmKGTMSC]VWVKF-NH2	1051
JBT0635	433	D	Ac-SRYKWF[CGMRDMkGTMSC]VWVKF-NH2	1114
JBT0637	3590	E	Ac-SRYKWF[CGMRDMKGtMSC]VWVKF-NH2	1169
JBT0638	>5000		Ac-SRYKWF[CGMRDMKGTmSC]VWVKF-NH2	1246
JBT0639	1220	E	Ac-SRYKWF[CGMRDMKGTMsC]VWVKF-NH2	1170

도면34d

시퀄 번호	IC50 [nm]	친화도 클래스	서열	서열 번호
JBT0640	3470	E	Ac-SRYKWF[CGMRDMKGTMSc]VWVKF-NH2	1171
JBT0641	>5000		Ac-SRYKWF[CPMRDMKGTMSC]VWVKF-NH2	1247
JBT0642	>5000		Ac-SRYKWF[CGPRDMKGTMSC]VWVKF-NH2	1248
JBT0643	23	A	Ac-SRYKWF[CGMPDMKGTMSC]VWVKF-NH2	1006
JBT0644	2873	E	Ac-SRYKWF[CGMRPMKGTMSC]VWVKF-NH2	1172
JBT0645	165	C	Ac-SRYKWF[CGMRDPKGTMSC]VWVKF-NH2	1084
JBT0646	3169	E	Ac-SRYKWF[CGMRDMPGTMSC]VWVKF-NH2	1173
JBT0647	>5000		Ac-SRYKWF[CGMRDMKPTMSC]VWVKF-NH2	1249
JBT0648	3682	E	Ac-SRYKWF[CGMRDMKGPMSC]VWVKF-NH2	1174
JBT0649	2989	E	Ac-SRYKWF[CGMRDMKGTPSC]VWVKF-NH2	1175
JBT0650	>5000		Ac-SRYKWF[CGMRDMKGTMPC]VWVKF-NH2	1250
JBT0790	255	D	H-GSSRYKWF[CGMRDMKGTMSC]VWVKF-OH	1115
JBT1416	39	A	Ac-DRYKWF[CGMRDMKGTMSC]VWVKF-NH2	1007
JBT1417	344	D	Ac-SDYKWF[CGMRDMKGTMSC]VWVKF-NH2	1116
JBT1418	1469	E	Ac-SRDKWF[CGMRDMKGTMSC]VWVKF-NH2	1176
JBT1419	536	D	Ac-SRYDWF[CGMRDMKGTMSC]VWVKF-NH2	1117
JBT1420	>5000		Ac-SRYKDF[CGMRDMKGTMSC]VWVKF-NH2	1251
JBT1421	>5000		Ac-SRYKWD[CGMRDMKGTMSC]VWVKF-NH2	1252
JBT1422	>5000		Ac-SRYKWF[CDMRDMKGTMSC]VWVKF-NH2	1253
JBT1423	4671	E	Ac-SRYKWF[CGDRDMKGTMSC]VWVKF-NH2	1177
JBT1424	>5000		Ac-SRYKWF[CGMDDMKGTMSC]VWVKF-NH2	1254
JBT1425	101	C	Ac-SRYKWF[CGMRDDKGTMSC]VWVKF-NH2	1085
JBT1426	17	A	Ac-SRYKWF[CGMRDMDGTMSC]VWVKF-NH2	1008
JBT1427	87	B	Ac-SRYKWF[CGMRDMKDTMSC]VWVKF-NH2	1052
JBT1428	478	D	Ac-SRYKWF[CGMRDMKGDMSC]VWVKF-NH2	1118
JBT1429	107	C	Ac-SRYKWF[CGMRDMKGTDSC]VWVKF-NH2	1086
JBT1430	265	D	Ac-SRYKWF[CGMRDMKGTMDC]VWVKF-NH2	1119
JBT1431	>5000		Ac-SRYKWF[CGMRDMKGTMSC]DWVKF-NH2	1255
JBT1432	>5000		Ac-SRYKWF[CGMRDMKGTMSC]VDVKF-NH2	1256
JBT1433	>5000		Ac-SRYKWF[CGMRDMKGTMSC]VWDKF-NH2	1257
JBT1434	515	D	Ac-SRYKWF[CGMRDMKGTMSC]VWVDF-NH2	1120
JBT1435	34	A	Ac-SRYKWF[CGMRDMKGTMSC]VWVKD-NH2	1009

도면34e

사물 번호	IC50 [nm]	친화도 클래스	서열	서열 번호
JBT1436	54	B	Ac-FRYKWF[CGMRDMKGTMSC]VWVKF-NH2	1053
JBT1437	33	A	Ac-SFYKWF[CGMRDMKGTMSC]VWVKF-NH2	1010
JBT1438	40	A	Ac-SRFKWF[CGMRDMKGTMSC]VWVKF-NH2	1011
JBT1439	572	D	Ac-SRYFWF[CGMRDMKGTMSC]VWVKF-NH2	1121
JBT1440	>5000		Ac-SRYKFF[CGMRDMKGTMSC]VWVKF-NH2	1258
JBT1441	>5000		Ac-SRYKWF[CFMRDMKGTMSC]VWVKF-NH2	1259
JBT1442	2701	E	Ac-SRYKWF[CGFRDMKGTMSC]VWVKF-NH2	1178
JBT1443	1218	E	Ac-SRYKWF[CGMFDMKGTMSC]VWVKF-NH2	1179
JBT1444	>5000		Ac-SRYKWF[CGMRFMKGTMSC]VWVKF-NH2	1260
JBT1445	43	A	Ac-SRYKWF[CGMRDFKGTMSC]VWVKF-NH2	1012
JBT1446	69	B	Ac-SRYKWF[CGMRDMFGTMSC]VWVKF-NH2	1054
JBT1447	344	D	Ac-SRYKWF[CGMRDMKFTMSC]VWVKF-NH2	1122
JBT1448	296	D	Ac-SRYKWF[CGMRDMKGFMSC]VWVKF-NH2	1123
JBT1449	23	A	Ac-SRYKWF[CGMRDMKGTFSC]VWVKF-NH2	1013
JBT1450	475	D	Ac-SRYKWF[CGMRDMKGTMFC]VWVKF-NH2	1124
JBT1451	236	C	Ac-SRYKWF[CGMRDMKGTMSC]FWVKF-NH2	1087
JBT1452	546	D	Ac-SRYKWF[CGMRDMKGTMSC]VFVKF-NH2	1125
JBT1453	>5000		Ac-SRYKWF[CGMRDMKGTMSC]VWFKF-NH2	1261
JBT1454	>5000		Ac-SRYKWF[CGMRDMKGTMSC]VWVFF-NH2	1262
JBT1455	39	A	Ac-GRYKWF[CGMRDMKGTMSC]VWVKF-NH2	1014
JBT1456	265	D	Ac-SGYKWF[CGMRDMKGTMSC]VWVKF-NH2	1126
JBT1457	1866	E	Ac-SRGKWF[CGMRDMKGTMSC]VWVKF-NH2	1180
JBT1458	430	D	Ac-SRYGWF[CGMRDMKGTMSC]VWVKF-NH2	1127
JBT1459	>5000		Ac-SRYKGF[CGMRDMKGTMSC]VWVKF-NH2	1263
JBT1460	>5000		Ac-SRYKWG[CGMRDMKGTMSC]VWVKF-NH2	1264
JBT1461	2099	E	Ac-SRYKWF[CGGRDMKGTMSC]VWVKF-NH2	1181
JBT1462	370	D	Ac-SRYKWF[CGMGDMKGTMSC]VWVKF-NH2	1128
JBT1463	682	D	Ac-SRYKWF[CGMRGMKGTMSC]VWVKF-NH2	1129
JBT1464	150	C	Ac-SRYKWF[CGMRDGKGTMSC]VWVKF-NH2	1088
JBT1465	50	A	Ac-SRYKWF[CGMRDMGGTMSC]VWVKF-NH2	1015
JBT1466	85	B	Ac-SRYKWF[CGMRDMKGGMSC]VWVKF-NH2	1055
JBT1467	290	D	Ac-SRYKWF[CGMRDMKGTGSC]VWVKF-NH2	1130

도면34f

샤물 번호	IC50 [nm]	친화도 클래스	서열	서열 번호
JBT1468	778	D	Ac-SRYKWF[CGMRDMKGTMGC]VWVKF-NH2	1131
JBT1469	2366	E	Ac-SRYKWF[CGMRDMKGTMSC]GWVKF-NH2	1182
JBT1470	>5000		Ac-SRYKWF[CGMRDMKGTMSC]VGVKF-NH2	1265
JBT1471	>5000		Ac-SRYKWF[CGMRDMKGTMSC]VWGKF-NH2	1266
JBT1472	158	C	Ac-SRYKWF[CGMRDMKGTMSC]VWVGF-NH2	1089
JBT1473	176	C	Ac-SRYKWF[CGMRDMKGTMSC]VWVKG-NH2	1090
JBT1474	31	A	Ac-KRYKWF[CGMRDMKGTMSC]VWVKF-NH2	1016
JBT1475	69	B	Ac-SKYKWF[CGMRDMKGTMSC]VWVKF-NH2	1056
JBT1476	282	D	Ac-SRKKWF[CGMRDMKGTMSC]VWVKF-NH2	1132
JBT1477	>5000		Ac-SRYKKF[CGMRDMKGTMSC]VWVKF-NH2	1267
JBT1478	162	C	Ac-SRYKWK[CGMRDMKGTMSC]VWVKF-NH2	1091
JBT1479	1110	E	Ac-SRYKWF[CKMRDMKGTMSC]VWVKF-NH2	1183
JBT1480	392	D	Ac-SRYKWF[CGKRDMKGTMSC]VWVKF-NH2	1133
JBT1481	20	A	Ac-SRYKWF[CGMKDMKGTMSC]VWVKF-NH2	1017
JBT1482	1354	E	Ac-SRYKWF[CGMRKMKGTMSC]VWVKF-NH2	1184
JBT1483	59	B	Ac-SRYKWF[CGMRDKKGTMSC]VWVKF-NH2	1057
JBT1484	520	D	Ac-SRYKWF[CGMRDMKKTMSC]VWVKF-NH2	1134
JBT1485	67	B	Ac-SRYKWF[CGMRDMKGKMSC]VWVKF-NH2	1058
JBT1486	54	B	Ac-SRYKWF[CGMRDMKGTKSC]VWVKF-NH2	1059
JBT1487	434	D	Ac-SRYKWF[CGMRDMKGTMKC]VWVKF-NH2	1135
JBT1488	>5000		Ac-SRYKWF[CGMRDMKGTMSC]KWVKF-NH2	1268
JBT1489	>5000		Ac-SRYKWF[CGMRDMKGTMSC]VKVKF-NH2	1269
JBT1490	>5000		Ac-SRYKWF[CGMRDMKGTMSC]VWKKF-NH2	1270
JBT1491	335	D	Ac-SRYKWF[CGMRDMKGTMSC]VWVKK-NH2	1136
JBT1492	38	A	Ac-LRYKWF[CGMRDMKGTMSC]VWVKF-NH2	1018
JBT1493	51	B	Ac-SLYKWF[CGMRDMKGTMSC]VWVKF-NH2	1060
JBT1494	679	D	Ac-SRLKWF[CGMRDMKGTMSC]VWVKF-NH2	1137
JBT1495	729	D	Ac-SRYLWF[CGMRDMKGTMSC]VWVKF-NH2	1138
JBT1496	>5000		Ac-SRYKLF[CGMRDMKGTMSC]VWVKF-NH2	1271
JBT1497	72	B	Ac-SRYKWL[CGMRDMKGTMSC]VWVKF-NH2	1061
JBT1498	>5000		Ac-SRYKWF[CLMRDMKGTMSC]VWVKF-NH2	1272
JBT1499	636	D	Ac-SRYKWF[CGLRDMKGTMSC]VWVKF-NH2	1139

도면34g

샤물 번호	IC50 [nm]	친화도 클래스	서열	서열 번호
JBT1500	68	B	Ac-SRYKWF[CGMLDMKGTMSC]VWVKF-NH2	1062
JBT1501	3449	E	Ac-SRYKWF[CGMRLMKGTMSC]VWVKF-NH2	1185
JBT1502	38	A	Ac-SRYKWF[CGMRDLKGTMSC]VWVKF-NH2	1019
JBT1503	54	B	Ac-SRYKWF[CGMRDMLGTMSC]VWVKF-NH2	1063
JBT1504	757	D	Ac-SRYKWF[CGMRDMKLTMSC]VWVKF-NH2	1140
JBT1505	155	C	Ac-SRYKWF[CGMRDMKGLMSC]VWVKF-NH2	1092
JBT1506	57	B	Ac-SRYKWF[CGMRDMKGTLSC]VWVKF-NH2	1064
JBT1507	411	D	Ac-SRYKWF[CGMRDMKGTMLC]VWVKF-NH2	10141
JBT1508	216	C	Ac-SRYKWF[CGMRDMKGTMSC]LWVKF-NH2	1093
JBT1509	>5000		Ac-SRYKWF[CGMRDMKGTMSC]VLVKF-NH2	1273
JBT1510	221	C	Ac-SRYKWF[CGMRDMKGTMSC]VWLKF-NH2	1094
JBT1511	330	D	Ac-SRYKWF[CGMRDMKGTMSC]VWVLF-NH2	1142
JBT1512	18	A	Ac-SRYKWF[CGMRDMKGTMSC]VWVKL-NH2	1020
JBT1513	56	B	Ac-SSYKWF[CGMRDMKGTMSC]VWVKF-NH2	1065
JBT1514	92	B	Ac-SRSKWF[CGMRDMKGTMSC]VWVKF-NH2	1066
JBT1515	411	D	Ac-SRYSWF[CGMRDMKGTMSC]VWVKF-NH2	1143
JBT1516	>5000		Ac-SRYKSF[CGMRDMKGTMSC]VWVKF-NH2	1274
JBT1517	>5000		Ac-SRYKWS[CGMRDMKGTMSC]VWVKF-NH2	1275
JBT1518	50	A	Ac-SRYKWF[CSMRDMKGTMSC]VWVKF-NH2	1021
JBT1519	1825	E	Ac-SRYKWF[CGSRDMKGTMSC]VWVKF-NH2	1186
JBT1520	202	C	Ac-SRYKWF[CGMSDMKGTMSC]VWVKF-NH2	1095
JBT1521	226	C	Ac-SRYKWF[CGMRSMKGTMSC]VWVKF-NH2	1096
JBT1522	92	B	Ac-SRYKWF[CGMRDSKGTMSC]VWVKF-NH2	1067
JBT1523	35	A	Ac-SRYKWF[CGMRDMSGTMSC]VWVKF-NH2	1022
JBT1524	512	D	Ac-SRYKWF[CGMRDMKSTMSC]VWVKF-NH2	1144
JBT1525	56	B	Ac-SRYKWF[CGMRDMKGSMSC]VWVKF-NH2	1068
JBT1526	80	B	Ac-SRYKWF[CGMRDMKGTSSC]VWVKF-NH2	1069
JBT1527	190	C	Ac-SRYKWF[CGMRDMKGTMSC]SWVKF-NH2	1097
JBT1528	>5000		Ac-SRYKWF[CGMRDMKGTMSC]VSVKF-NH2	1276
JBT1529	>5000		Ac-SRYKWF[CGMRDMKGTMSC]VWVSKF-NH2	1277
JBT1530	83	B	Ac-SRYKWF[CGMRDMKGTMSC]VWVSF-NH2	1070
JBT1531	63	B	Ac-SRYKWF[CGMRDMKGTMSC]VWVKS-NH2	1071

도면34h

시퓰 번호	IC50 [nm]	친화도 클래스	서열	서열 번호
JBT1532	54	B	Ac-PRYKWF[CGMRDMKGTMSC]VWVKF-NH2	1072
JBT1533	263	D	Ac-SPYKWF[CGMRDMKGTMSC]VWVKF-NH2	1145
JBT1534	2398	E	Ac-SRPKWF[CGMRDMKGTMSC]VWVKF-NH2	1187
JBT1535	>5000		Ac-SRYPWF[CGMRDMKGTMSC]VWVKF-NH2	1278
JBT1536	>5000		Ac-SRYKPF[CGMRDMKGTMSC]VWVKF-NH2	1279
JBT1537	>5000		Ac-SRYKWP[CGMRDMKGTMSC]VWVKF-NH2	1280
JBT1538	>5000		Ac-SRYKWF[CGMRDMKGTMSC]PWVKF-NH2	1281
JBT1539	>5000		Ac-SRYKWF[CGMRDMKGTMSC]VPVKF-NH2	1282
JBT1540	>5000		Ac-SRYKWF[CGMRDMKGTMSC]VWPKF-NH2	1283
JBT1541	29	A	Ac-SRYKWF[CGMRDMKGTMSC]VWVPF-NH2	1023
JBT1542	1052	E	Ac-SRYKWF[CGMRDMKGTMSC]VWVKP-NH2	1188
JBT1543	202	C	Ac-SRYKWF[CGMRDMKGTMSC]VWVKF-OH	1098
JBT1544	40	A	H-SRYKWF[CGMRDMKGTMSC]VWVKF-NH2	1024
JBT1545	239	C	H-SRYKWF[CGMRDMKGTMSC]VWVKF-OH	1099
JBT1546	>5000		Ac-SRYKWF[CEMRDMKGTMSC]VWVKF-NH2	1284
JBT1547	>5000		Ac-SRYKWF[CHMRDMKGTMSC]VWVKF-NH2	1285
JBT1548	>5000		Ac-SRYKWF[CIMRDMKGTMSC]VWVKF-NH2	1286
JBT1549	1736	E	Ac-SRYKWF[CMMRDMKGTMSC]VWVKF-NH2	1189
JBT1550	1086	E	Ac-SRYKWF[CNMRDMKGTMSC]VWVKF-NH2	1190
JBT1551	682	D	Ac-SRYKWF[CQMRDMKGTMSC]VWVKF-NH2	1146
JBT1552	400	D	Ac-SRYKWF[CRMRDMKGTMSC]VWVKF-NH2	1147
JBT1553	292	D	Ac-SRYKWF[CTMRDMKGTMSC]VWVKF-NH2	1148
JBT1554	>5000		Ac-SRYKWF[CVMRDMKGTMSC]VWVKF-NH2	1287
JBT1555	3382	E	Ac-SRYKWF[CWMRDMKGTMSC]VWVKF-NH2	1191
JBT1556	>5000		Ac-SRYKWF[CYMRDMKGTMSC]VWVKF-NH2	1288
JBT1557	60	B	H-RYKWF[CGMRDMKGTMSC]VWVKF-NH2	173
JBT1558	975	D	H-YKWF[CGMRDMKGTMSC]VWVKF-NH2	1149
JBT1559	286	D	Ac-SRYKWF[CGaRDMKGTMSC]VWVKF-NH2	1150
JBT1560	>5000		Ac-SRYKWF[CGdRDMKGTMSC]VWVKF-NH2	1289
JBT1561	3031	E	Ac-SRYKWF[CGfRDMKGTMSC]VWVKF-NH2	1192
JBT1562	1783	E	Ac-SRYKWF[CGkRDMKGTMSC]VWVKF-NH2	1193
JBT1563	1821	E	Ac-SRYKWF[CGlRDMKGTMSC]VWVKF-NH2	1194

도면34i

샤폴 번호	IC50 [nm]	친화도 클래스	서열	서열 번호
JBT1564	170	C	Ac-SRYKWH[CGpRDMKGTMSC]VWVKF-NH2	1100
JBT1565	1712	E	Ac-SRYKWH[CGsRDMKGTMSC]VWVKF-NH2	1195
JBT1566	367	D	Ac-SRYKWH[CGMRDaKGTMSC]VWVKF-NH2	1151
JBT1567	212	C	Ac-SRYKWH[CGMRDdKGTMSC]VWVKF-NH2	1101
JBT1568	73	B	Ac-SRYKWH[CGMRDfKGTMSC]VWVKF-NH2	1074
JBT1569	155	C	Ac-SRYKWH[CGMRDkKGTMSC]VWVKF-NH2	1102
JBT1570	47	A	Ac-SRYKWH[CGMRDlKGTMSC]VWVKF-NH2	1025
JBT1571	1320	E	Ac-SRYKWH[CGMRDpKGTMSC]VWVKF-NH2	1196
JBT1572	650	D	Ac-SRYKWH[CGMRDsKGTMSC]VWVKF-NH2	1152
JBT1573	1154	E	Ac-SRYKWH[CGMRDMaGTMSC]VWVKF-NH2	1197
JBT1574	350	D	Ac-SRYKWH[CGMRDMdGTMSC]VWVKF-NH2	1153
JBT1575	2377	E	Ac-SRYKWH[CGMRDMfGTMSC]VWVKF-NH2	1198
JBT1576	1004	E	Ac-SRYKWH[CGMRDMlGTMSC]VWVKF-NH2	1199
JBT1577	1121	E	Ac-SRYKWH[CGMRDMpGTMSC]VWVKF-NH2	1200
JBT1578	633	D	Ac-SRYKWH[CGMRDMsGTMSC]VWVKF-NH2	1154
JBT1735	9	A	Ac-SMYKWH[CGMRDMKGTYSC]VWVKF-NH2	1026
JBT1772	11	A	Ac-FHYKWH[CGMRDMKGTYSC]VWVKF-NH2	1027
JBT1808	12	A	Ac-SYYKWH[CGMRDMKGIMSC]AWVKF-NH2	1028
JBT1811	11	A	Ac-SYYKWH[CGMRDMKGIMSC]VWVKY-NH2	1029
JBT1812	11	A	Ac-SYYKWH[CGMRDMKGIDSC]VWVRF-NH2	1030
JBT1813	9	A	Ac-SYYKWH[CGMRDMKGIMSC]VWVKA-NH2	1031
JBT1815	10	A	Ac-SYYKWH[CGMRDMKGTMTC]VWVKF-NH2	1032
JBT1816	9	A	Ac-SYYKWH[CGMRDMKGTMSC]VWVKS-NH2	1033
JBT1817	9	A	Ac-SHYKWH[CAMRDMKGTYSC]VWVKF-NH2	1034
JBT1821	11	A	Ac-SYYKWH[CGVRDMKGTMSC]VWVKS-NH2	1035
JBT1822	18	A	Ac-GHYKWH[CGMRDMKGTTSC]VWVF-NH2	1036
JBT1825	11	A	Ac-AYYKWH[CGMRDLKGTMSC]VWVKS-NH2	1037
JBT1826	11	A	Ac-SYYKWH[CGMRDMKGTYSC]VWVKM-NH2	1038
JBT1828	22	A	Ac-SHYKWH[CGMRDMKGIMSC]VWVF-NH2	1039
JBT1829	8	A	Ac-FYYKWH[CGMRDMKGTMSC]AWVKF-NH2	1040
JBT1830	10	A	Ac-SYYKWH[CGMRDMKGTDSC]VWVWY-NH2	1041
JBT1831	13	A	Ac-SHYKWH[CGMRDMKGTMSC]AWVKF-NH2	1042

도면34j

서열 번호	서열	친화도 클래스	IC50 [nM]	사물 번호
1043	Ac-HYYKWH[CGMRDMKGTMSC]VWVKS-NH2	A	11	JBT1832
1044	Ac-SYYKWH[CAMRDMKGTMTC]VWVKF-NH2	A	10	JBT1837
1045	Ac-SYYKWH[CGMRDMKGTMSC]VWVLF-NH2	A	11	JBT1840
1046	Ac-SHYKWH[CAMRDMKGTMSC]AWVKF-NH2	A	9	JBT1842

도면35

사물 번호	EC50(nM)	서열	서열 번호
JBT01124	1.8	비오티닐-Tids-SGASRYKWFICGMRDMKGTMSCIVWVKFRYDTS-NH2	1290
JBT0659	2.1	비오티닐-Tids-SRYKWFICGMRDMKGTMSCIVWVKF-NH2	1291

도면36a

샤물 번호	IC50 [nM]	친화도 클래스	서열	서열 번호
JBT0122	3084	E	Ac-SGYASFPLAVQLHVSKRSKEMALARLYYKTS-NH2	2002
JBT0221	1412	E	Ac-KKSGYASFPLAVQLHVSKRSKEMALARLYYKTSKK-NH2	2003
JBT0222*	36272	G	Ac-MKSRSLGLAYEAKHSSLEVLQTRKVAAPYY-NH2	2127
JBT0223*	>50000		Ac-KMQLRVYASTAHSRYLLGSSLFPKYAEVKA-NH2	2297
JBT0224	>50000		Ac-KKSGYASFPLAVQLHVSKRSKEMALARLYYKK-NH2	2298
JBT0225	25395	G	Ac-KKSGYASFPLAVQLHVSKRSKEMALARKK-NH2	2128
JBT0226	>50000		Ac-KKSGYASFPLAVQLHVSKRSKEMAKK-NH2	2299
JBT0227	>50000		Ac-KKSGYASFPLAVQLHVSKRSKKK-NH2	2300
JBT0228	5436	F	Ac-KKASFPLAVQLHVSKRSKEMALARLYYKTSKK-NH2	2016
JBT0229	16971	G	Ac-KKPLAVQLHVSKRSKEMALARLYYKTSKK-NH2	2129
JBT0230	>50000		Ac-KKVQLHVSKRSKEMALARLYYKTSKK-NH2	2301
JBT0231	>50000		Ac-KKHVSKRSKEMALARLYYKTSKK-NH2	2302
JBT0232	>50000		Ac-KKGYASFPLAVQLHVSKRSKEMKK-NH2	2303
JBT0233	>50000		Ac-KKYASFPLAVQLHVSKRSKEMAKK-NH2	2304
JBT0234	>50000		Ac-KKVQLHVSKRSKEMALARLYYKKK-NH2	2305
JBT0235	>50000		Ac-KKQLHVSKRSKEMALARLYYKTKK-NH2	2306
JBT0236	>50000		Ac-KKLHVSKRSKEMALARLYYKTSKK-NH2	2307
JBT0237	>50000		Ac-KKSGYASFPLAVQLHVSKRSKEKK-NH2	2308
JBT0359	>50000		Ac-ASFPLAVQLHVSKRSKEMA-NH2	2309
JBT0360	>50000		Ac-SFPLAVQLHVSKRSKEMA-NH2	2310
JBT0361	>50000		Ac-FPLAVQLHVSKRSKEMA-NH2	2311
JBT0362	>50000		Ac-ASFPLAVQLHVSKRSKEM-NH2	2312
JBT0363	>50000		Ac-ASFPLAVQLHVSKRSKE-NH2	2313
JBT0364	>50000		Ac-ASFPLAVQLHVSKRSKEMAL-NH2	2314
JBT0365	>50000		Ac-ASFPLAVQLHVSKRSKEMALA-NH2	2315
JBT0366	>50000		Ac-ASFPLAVQLHVSKRSKEMALAR-NH2	2316
JBT0367	>50000		Ac-ASFPLAVQLHVSKRSKEMALARL-NH2	2317
JBT0368	27346	G	Ac-ASFPLAVQLHVSKRSKEMALARLY-NH2	2130
JBT0369	5107	F	Ac-ASFPLAVQLHVSKRSKEMALARLYY-NH2	2017
JBT0370	>50000		Ac-YASFPLAVQLHVSKRSKEMA-NH2	2318
JBT0371	>50000		Ac-GYASFPLAVQLHVSKRSKEMA-NH2	2319
JBT0660	2645	E	Ac-AGYASFPLAVQLHVSKRSKEMALARLYYKTS-NH2	2004

도면36b

사물 번호	IC50 [nM]	친화도 클래스	서열	서열 번호
JBT0661	1383	E	Ac-SAYASIFPLAVQLHVSKRSKEMALARLYYKTS-NH2	2005
JBT0662	13759	G	Ac-SGAASIFPLAVQLHVSKRSKEMALARLYYKTS-NH2	2131
JBT0664	2739	E	Ac-SGYAAFPLAVQLHVSKRSKEMALARLYYKTS-NH2	2006
JBT0665	25704	G	Ac-SGYASAPLAVQLHVSKRSKEMALARLYYKTS-NH2	2132
JBT0666	915	D	Ac-SGYASFALAVQLHVSKRSKEMALARLYYKTS-NH2	2001
JBT0667	9314	F	Ac-SGYASFPAAVQLHVSKRSKEMALARLYYKTS-NH2	2018
JBT0669	33021	G	Ac-SGYASIFPLAAQLHVSKRSKEMALARLYYKTS-NH2	2133
JBT0670	2506	E	Ac-SGYASIFPLAVALHVSKRSKEMALARLYYKTS-NH2	2007
JBT0671	5836	F	Ac-SGYASIFPLAVQAHVSKRSKEMALARLYYKTS-NH2	2019
JBT0672	38327	G	Ac-SGYASIFPLAVQLAVSKRSKEMALARLYYKTS-NH2	2134
JBT0673	16425	G	Ac-SGYASIFPLAVQLHASKRSKEMALARLYYKTS-NH2	2135
JBT0674	1173	E	Ac-SGYASIFPLAVQLHVAKRSKEMALARLYYKTS-NH2	2008
JBT0675	18317	G	Ac-SGYASIFPLAVQLHVSARSKEMALARLYYKTS-NH2	2136
JBT0676	37412	G	Ac-SGYASIFPLAVQLHVSKASKEMALARLYYKTS-NH2	2137
JBT0677	1905	E	Ac-SGYASIFPLAVQLHVSKRAKEMALARLYYKTS-NH2	2009
JBT0678	4071	E	Ac-SGYASIFPLAVQLHVSKRSAEMALARLYYKTS-NH2	2010
JBT0679	6196	F	Ac-SGYASIFPLAVQLHVSKRSKAMALARLYYKTS-NH2	2020
JBT0680	20935	G	Ac-SGYASIFPLAVQLHVSKRSKEAALARLYYKTS-NH2	2138
JBT0682	10271	G	Ac-SGYASIFPLAVQLHVSKRSKEMAAARLYYKTS-NH2	2139
JBT0684	4567	E	Ac-SGYASIFPLAVQLHVSKRSKEMALAALYYKTS-NH2	2011
JBT0685	9134	F	Ac-SGYASIFPLAVQLHVSKRSKEMALARAYYKTS-NH2	2021
JBT0686	13474	G	Ac-SGYASIFPLAVQLHVSKRSKEMALARLAYKTS-NH2	2140
JBT0687	11783	G	Ac-SGYASIFPLAVQLHVSKRSKEMALARLYAKTS-NH2	2141
JBT0688	4196	E	Ac-SGYASIFPLAVQLHVSKRSKEMALARLYYATS-NH2	2012
JBT0689	3127	E	Ac-SGYASIFPLAVQLHVSKRSKEMALARLYYKAS-NH2	2013
JBT0690	3000	E	Ac-SGYASIFPLAVQLHVSKRSKEMALARLYYKTA-NH2	2014
JBT0788	16205	G	H-GSSGYASIFPLAVQLHVSKRSKEMALARLYYKTS-OH	2142
JBT1579	2593	E	Ac-GYASIFPLAVQLHVAKRSKEMA-NH2	2015
JBT1580	>50000		Ac-GYASFALSVQLHVSKRSKEMA-NH2	2320
JBT1581	>50000		Ac-GYASFALAVQLHVAKRSKEMA-NH2	2321
JBT1582	5841	F	Ac-GYASFPLAVQLHVMKRSKEMA-NH2	2022
JBT1583	>50000		Ac-GYASFALAVQLHVMKRSKEMA-NH2	2322

도면36c

사물 번호	IC50 [nM]	친화도 클래스	서열	서열 번호
JBT1599	>50000		Ac-FPLAVQLHVSKRSKEMALA-NH2	2323
JBT1600	>50000		Ac-QLHVSKRSKEMALA-NH2	2324
JBT1601	>50000		Ac-SGYASFP-NH2	2325
JBT1602	>50000		Ac-LAVQLHVSKRSKEMALARL-NH2	2326
JBT1644			Ac-VYASFFLTVQLHVSKRSKEMA-NH2	2327
JBT1645			Ac-GYWSFPQAVQLHVSKRSKEMA-NH2	2328
JBT1646			Ac-GYASFILAVQLHVSKRSKEMA-NH2	2329
JBT1647			Ac-GYWSFYLAVQLHVSKRSKEMA-NH2	2330
JBT1648			Ac-SYASFFLAVQLHVSKRSEEMA-NH2	2331
JBT1649	10282	G	Ac-GYWSFPHAVWHHVSKRSKEMA-NH2	2143
JBT1650			Ac-GYASFILAVQLHIKRSKEMA-NH2	2332
JBT1651			Ac-GMASFFLARDLHWSKVFKEMA-NH2	2333
JBT1653			Ac-EYAQFWLAVQLHVSKRSKEMA-NH2	2334
JBT1654			Ac-GYASFPLIVQLHVSKRSKEMA-NH2	2335
JBT1655			Ac-GYASFPIHVQHHVSKRSKEMA-NH2	2336
JBT1656			Ac-GYASFALMVQLHVSKRSKEMA-NH2	2337
JBT1657			Ac-GYASFHQAVQRHVSKRSKEMA-NH2	2338
JBT1658			Ac-GYASFALMVQHHVSKRSKEMA-NH2	2339
JBT1659	14473	G	Ac-GYASFWQAVQLHVWKRSKEIA-NH2	2144
JBT1660	14063	G	Ac-GYASFPLIVWLHVSKRSKEMA-NH2	2145
JBT1661			Ac-GYASFSLAVQLHVSKRSKEMA-NH2	2340
JBT1662			Ac-GYHSFKLAVQLHVSKRSKEIA-NH2	2341
JBT1663	12912	G	Ac-GYASFWQAVQLHVSKRSKEIA-NH2	2146
JBT1664			Ac-GYASYVLAVQHHVSWRSWEMA-NH2	2342
JBT1665			Ac-HYHSLPKQVQLHVSKRSKEMA-NH2	2343
JBT1666			Ac-GYASFSLAVQLHVIKRSYEMA-NH2	2344
JBT1668			Ac-GYASFELLVQLHVSKRSKEMA-NH2	2345
JBT1669			Ac-SYSSEKLAVQLHVSKRSKEMA-NH2	2346
JBT1670			Ac-GYAWFPLNVWLHVHKRSHEMA-NH2	2347
JBT1671			Ac-GYASFWLSVQTHVSKRSKEMA-NH2	2348

도면36d

샤물 번호	IC50 [nM]	친화도 클래스	서열	서열 번호
JBT1672			Ac-GYASFPLMVQLHVIKRSKEMA-NH2	2349
JBT1673			Ac-GYWSFNLVVQLHVSKRSKEMA-NH2	2350
JBT1674			Ac-GYASFHLAVQLHVWKRSKEMA-NH2	2351
JBT1675			Ac-GYASFWLVVQLHVSKRSKEMA-NH2	2352
JBT1676			Ac-GYWSFPLAVQLHVWKRSWEMA-NH2	2353
JBT1677			Ac-GYASFPWYVQLHVSKRSKEMA-NH2	2354
JBT1678			Ac-GYTSFQLAVQLHVSKRSKEMA-NH2	2355
JBT1679			Ac-RYASFPLAVYLHVTKRSKEMA-NH2	2356
JBT1680			Ac-GYWSFPLAVQLHVSKRLKEMA-NH2	2357
JBT1681			Ac-GHASFQTAVQQHVSKRSKEMA-NH2	2358
JBT1682			Ac-FHVSKRSKEMA-NH2	2359
JBT1683			Ac-GYASFWHAVQLHVSKRSKEMA-NH2	2360
JBT1684			Ac-GIASFILAVQLHVYKRSKEMA-NH2	2361
JBT1685			Ac-GYTSFMQAVQHHVSKRSKEIA-NH2	2362
JBT1686			Ac-HYHSFYLAVQLHVWERSYEMA-NH2	2363
JBT1687			Ac-GYASFWHAVQHHVTKRSREMA-NH2	2364
JBT1688			Ac-GYASFTLTVQLHVSKRSKEMA-NH2	2365
JBT1689			Ac-GYASFILTVQLHVSKRSKEMA-NH2	2366
JBT1690			Ac-GYASFWLAVQHHVSKRSKEMA-NH2	2367
JBT1691			Ac-GYASFILAVQHHVSKRSKEMA-NH2	2368
JBT1692			Ac-SYASFPPAVMLHVWKRSYEMA-NH2	2369
JBT1693			Ac-GYASFNLAVQLHVSKRSKEMA-NH2	2370
JBT1694			Ac-GYWSFNLAVQLHVSKRSKEMA-NH2	2371
JBT1695			Ac-GYASFILAVQLHVSKRSKEMA-NH2	2372
JBT1696			Ac-GYASFWLAVQMHVWKRSKEMA-NH2	2373
JBT1697	8481	F	Ac-GYASFPWFVQLHVHKRSWEMA-NH2	223
JBT1698			Ac-GYASFSLAIQLHVSKRSKEMA-NH2	2374
JBT1858		F	Ac-AYASFPWFVQLHVHKRSWEMA-NH2	2024
JBT1859			Ac-GAASFPWFVQLHVHKRSWEMA-NH2	2375
JBT1860		F	Ac-GYAAFPWFVQLHVHKRSWEMA-NH2	2025

도면36e

서열 번호	서열	친화도 클래스	IC50 [nM]	사물 번호
2376	Ac-GYASAPWFVQLHVHKRSWEMA-NH2			JBT1861
2377	Ac-GYASEAWFVQLHVHKRSWEMA-NH2			JBT1862
2147	Ac-GYASIPAFVQLHVHKRSWEMA-NH2	G		JBT1863
2026	Ac-GYASFPWAVQLHVHKRSWEMA-NH2	F		JBT1864
2378	Ac-GYASFPWFAQLHVHKRSWEMA-NH2			JBT1865
2027	Ac-GYASFPWFVALHVHKRSWEMA-NH2	F		JBT1866
2148	Ac-GYASFPWFVQAHVHKRSWEMA-NH2	G		JBT1867
2379	Ac-GYASFPWFVQLAVHKRSWEMA-NH2			JBT1868
2149	Ac-GYASFPWFVQLHAHKRSWEMA-NH2	G		JBT1869
2150	Ac-GYASFPWFVQLHVAKRSWEMA-NH2	G		JBT1870
2380	Ac-GYASFPWFVQLHVHARSWEMA-NH2			JBT1871
2381	Ac-GYASFPWFVQLHVHKASWEMA-NH2			JBT1872
2382	Ac-GYASFPWFVQLHVHKRSAEMA-NH2			JBT1874
2151	Ac-GYASFPWFVQLHVHKRSWAMA-NH2	G		JBT1875
2152	Ac-GYASFPWFVQLHVHKRSWEAA-NH2	G		JBT1876
2028	Ac-CYASFPWFVQLHVHKRSWEMA-NH2	F		JBT1877
2029	Ac-GCASFPWFVQLHVHKRSWEMA-NH2	F		JBT1878
2030	Ac-GYCSFPWFVQLHVHKRSWEMA-NH2	F		JBT1879
2031	Ac-GYACFPWFVQLHVHKRSWEMA-NH2	F		JBT1880
2032	Ac-GYASCPWFVQLHVHKRSWEMA-NH2	F		JBT1881
2153	Ac-GYASICWFVQLHVHKRSWEMA-NH2	G		JBT1882
2033	Ac-GYASFPCFVQLHVHKRSWEMA-NH2	F		JBT1883
2034	Ac-GYASFPWCVQLHVHKRSWEMA-NH2	F		JBT1884
2035	Ac-GYASFPWFCQLHVHKRSWEMA-NH2	F		JBT1885
2236	Ac-GYASFPWFVCLHVHKRSWEMA-NH2	F		JBT1886
2154	Ac-GYASFPWFVQLCVHKRSWEMA-NH2	G		JBT1888
2037	Ac-GYASFPWFVQLHCHKRSWEMA-NH2	F		JBT1889
2038	Ac-GYASFPWFVQLHVCKRSWEMA-NH2	F		JBT1890
2383	Ac-GYASFPWFVQLHVHCRSWEMA-NH2			JBT1891
2384	Ac-GYASFPWFVQLHVHKCSWEMA-NH2			JBT1892

도면36f

샤물 번호	IC50 [nM]	친화도 클래스	서열	서열 번호
JBT1893		F	Ac-GYASFPWFVQLHVHKRCWEMA-NH2	2039
JBT1894		F	Ac-GYASFPWFVQLHVHKRSCEMA-NH2	2040
JBT1895		F	Ac-GYASFPWFVQLHVHKRSWCMA-NH2	2041
JBT1896		F	Ac-GYASFPWFVQLHVHKRSWECA-NH2	2042
JBT1897		F	Ac-GYASFPWFVQLHVHKRSWEMC-NH2	2043
JBT1898		F	Ac-DYASFPWFVQLHVHKRSWEMA-NH2	2044
JBT1899		G	Ac-GDASFPWFVQLHVHKRSWEMA-NH2	2155
JBT1900		G	Ac-GYDSFPWFVQLHVHKRSWEMA-NH2	2156
JBT1901		G	Ac-GYADFPWFVQLHVHKRSWEMA-NH2	2157
JBT1902		G	Ac-GYASDPWFVQLHVHKRSWEMA-NH2	2158
JBT1903			Ac-GYASFDWFVQLHVHKRSWEMA-NH2	2385
JBT1904			Ac-GYASFPDFVQLHVHKRSWEMA-NH2	2386
JBT1905			Ac-GYASFPWDVQLHVHKRSWEMA-NH2	2387
JBT1906			Ac-GYASFPWFDQLHVHKRSWEMA-NH2	2388
JBT1907			Ac-GYASFPWFVDLHVHKRSWEMA-NH2	2389
JBT1908			Ac-GYASFPWFVQDHVHKRSWEMA-NH2	2390
JBT1909			Ac-GYASFPWFVQLDVHKRSWEMA-NH2	2391
JBT1910			Ac-GYASFPWFVQLHDHKRSWEMA-NH2	2392
JBT1911			Ac-GYASFPWFVQLHVDKRSWEMA-NH2	2393
JBT1912			Ac-GYASFPWFVQLHVHDRSWEMA-NH2	2394
JBT1913			Ac-GYASFPWFVQLHVHKDSWEMA-NH2	2395
JBT1914			Ac-GYASFPWFVQLHVHKRDWEMA-NH2	2396
JBT1915			Ac-GYASFPWFVQLHVHKRSDEMA-NH2	2397
JBT1916		G	Ac-GYASFPWFVQLHVHKRSWDMA-NH2	2159
JBT1917			Ac-GYASFPWFVQLHVHKRSWEDA-NH2	2398
JBT1918			Ac-GYASFPWFVQLHVHKRSWEMD-NH2	2399
JBT1920			Ac-GEASFPWFVQLHVHKRSWEMA-NH2	2400
JBT1921		G	Ac-GYESFPWFVQLHVHKRSWEMA-NH2	2160
JBT1922		G	Ac-GYAEFPWFVQLHVHKRSWEMA-NH2	2161
JBT1923			Ac-GYASEPWFVQLHVHKRSWEMA-NH2	2401

도면36g

사물 번호	IC50 [nM]	친화도 클래스	서열	서열 번호
JBT1924			Ac-GYASIEWFVQLHVHKRSWEMA-NH2	2402
JBT1925			Ac-GYASIPEFVQLHVHKRSWEMA-NH2	2403
JBT1926			Ac-GYASIPWEVQLHVHKRSWEMA-NH2	2404
JBT1927			Ac-GYASIPWFEQLHVHKRSWEMA-NH2	2405
JBT1928			Ac-GYASIPWFVELHVHKRSWEMA-NH2	2406
JBT1929			Ac-GYASIPWFVQEHVHKRSWEMA-NH2	2407
JBT1930			Ac-GYASIPWFVQLEVHKRSWEMA-NH2	2408
JBT1931			Ac-GYASIPWFVQLHEHKRSWEMA-NH2	2409
JBT1932			Ac-GYASIPWFVQLHVEKRSWEMA-NH2	2410
JBT1933			Ac-GYASIPWFVQLHVHERSWEMA-NH2	2411
JBT1934			Ac-GYASIPWFVQLHVHKESWEMA-NH2	2412
JBT1935			Ac-GYASIPWFVQLHVHKREWEMA-NH2	2413
JBT1936			Ac-GYASIPWFVQLHVHKRSEEMA-NH2	2414
JBT1937			Ac-GYASIPWFVQLHVHKRSWEEA-NH2	2415
JBT1938			Ac-GYASIPWFVQLHVHKRSWEME-NH2	2416
JBT1939		G	Ac-FYASIPWFVQLHVHKRSWEMA-NH2	2162
JBT1940		G	Ac-GFASIPWFVQLHVHKRSWEMA-NH2	2163
JBT1941		G	Ac-GYFSIPWFVQLHVHKRSWEMA-NH2	2164
JBT1942		G	Ac-GYAFIPWFVQLHVHKRSWEMA-NH2	2165
JBT1943			Ac-GYASIFWFVQLHVHKRSWEMA-NH2	2417
JBT1944		G	Ac-GYASIPFFVQLHVHKRSWEMA-NH2	2166
JBT1945		G	Ac-GYASIPWFFQLHVHKRSWEMA-NH2	2167
JBT1946		G	Ac-GYASIPWFVFLHVHKRSWEMA-NH2	2168
JBT1948			Ac-GYASIPWFVQLFVHKRSWEMA-NH2	2418
JBT1949		G	Ac-GYASIPWFVQLHFHKRSWEMA-NH2	2169
JBT1950		F	Ac-GYASIPWFVQLHVFKRSWEMA-NH2	2045
JBT1951			Ac-GYASIPWFVQLHVHFRSWEMA-NH2	2419
JBT1952		G	Ac-GYASIPWFVQLHVHKFSWEMA-NH2	2170
JBT1953		G	Ac-GYASIPWFVQLHVHKRFWEMA-NH2	2171
JBT1954		G	Ac-GYASIPWFVQLHVHKRSFEMA-NH2	2172

도면36h

사물 번호	IC50 [nM]	친화도 클래스	서열	서열 번호
JBT1955		G	Ac-GYASIFPWFVQLHVHKRSWFMA-NH2	2173
JBT1956		G	Ac-GYASIFPWFVQLHVHKRSWEFA-NH2	2174
JBT1959		F	Ac-GYGSFPWFVQLHVHKRSWEMA-NH2	2046
JBT1960		F	Ac-GYAGFPWFVQLHVHKRSWEMA-NH2	2047
JBT1961		G	Ac-GYASGPWFVQLHVHKRSWEMA-NH2	2175
JBT1962			Ac-GYASFGWFVQLHVHKRSWEMA-NH2	2420
JBT1963		G	Ac-GYASIFPGFVQLHVHKRSWEMA-NH2	2176
JBT1964		G	Ac-GYASIFPWGVQLHVHKRSWEMA-NH2	2177
JBT1965		G	Ac-GYASIFPWFGQLHVHKRSWEMA-NH2	2178
JBT1966		G	Ac-GYASIFPWFVGLHVHKRSWEMA-NH2	2179
JBT1967		G	Ac-GYASIFPWFVQGHVHKRSWEMA-NH2	2180
JBT1968			Ac-GYASIFPWFVQLGVHKRSWEMA-NH2	2421
JBT1969		G	Ac-GYASIFPWFVQLHGHKRSWEMA-NH2	2181
JBT1970		G	Ac-GYASIFPWFVQLHVGKRSWEMA-NH2	2182
JBT1971			Ac-GYASIFPWFVQLHVHGRSWEMA-NH2	2422
JBT1972			Ac-GYASIFPWFVQLHVHKGSWEMA-NH2	2423
JBT1973		F	Ac-GYASIFPWFVQLHVHKRGWEMA-NH2	2048
JBT1974			Ac-GYASIFPWFVQLHVHKRSGEMA-NH2	2424
JBT1975		G	Ac-GYASIFPWFVQLHVHKRSWGMA-NH2	2183
JBT1976		G	Ac-GYASIFPWFVQLHVHKRSWEGA-NH2	2184
JBT1979		G	Ac-GHASIFPWFVQLHVHKRSWEMA-NH2	2185
JBT1980		F	Ac-GYHSIFPWFVQLHVHKRSWEMA-NH2	2049
JBT1981		F	Ac-GYAHIFPWFVQLHVHKRSWEMA-NH2	2050
JBT1982		F	Ac-GYASHPWFVQLHVHKRSWEMA-NH2	2051
JBT1984		G	Ac-GYASIFPHFVQLHVHKRSWEMA-NH2	2186
JBT1985		F	Ac-GYASIFPWHVQLHVHKRSWEMA-NH2	2052
JBT1986		G	Ac-GYASIFPWFHQLHVHKRSWEMA-NH2	2187
JBT1987		G	Ac-GYASIFPWFVHLHVHKRSWEMA-NH2	2188
JBT1989		G	Ac-GYASIFPWFVQLHHHKRSWEMA-NH2	2189
JBT1990			Ac-GYASIFPWFVQLHVHHRSWEMA-NH2	2425

도면36i

사물 번호	IC50 [nM]	친화도 클래스	서열	서열 번호
JBT1991			Ac-GYASFPWFVQLHVHKHSWEMA-NH2	2426
JBT1993			Ac-GYASFPWFVQLHVHKRSHEMA-NH2	2427
JBT1994		F	Ac-GYASFPWFVQLHVHKRSWHMA-NH2	2053
JBT1995		G	Ac-GYASFPWFVQLHVHKRSWEHA-NH2	2190
JBT1996		F	Ac-GYASFPWFVQLHVHKRSWEMH-NH2	2054
JBT1997		G	Ac-IYASFPWFVQLHVHKRSWEMA-NH2	2191
JBT1999		F	Ac-GYISFPWFVQLHVHKRSWEMA-NH2	2055
JBT2000		F	Ac-GYAIFPWFVQLHVHKRSWEMA-NH2	2056
JBT2001		G	Ac-GYASIPWFVQLHVHKRSWEMA-NH2	2192
JBT2002			Ac-GYASFIWFVQLHVHKRSWEMA-NH2	2428
JBT2003		G	Ac-GYASFPIFVQLHVHKRSWEMA-NH2	2193
JBT2005		G	Ac-GYASFPWFIQLHVHKRSWEMA-NH2	2194
JBT2006		G	Ac-GYASFPWFVILHVHKRSWEMA-NH2	2195
JBT2007		F	Ac-GYASFPWFVQIHVHKRSWEMA-NH2	2057
JBT2008		G	Ac-GYASFPWFVQLIVHKRSWEMA-NH2	2196
JBT2010		F	Ac-GYASFPWFVQLHVIKRSWEMA-NH2	2058
JBT2011			Ac-GYASFPWFVQLHVHIRSWEMA-NH2	2429
JBT2012			Ac-GYASFPWFVQLHVHKISWEMA-NH2	2430
JBT2013		F	Ac-GYASFPWFVQLHVHKRIWEMA-NH2	2059
JBT2014		F	Ac-GYASFPWFVQLHVHKRSIEMA-NH2	2060
JBT2017		F	Ac-GYASFPWFVQLHVHKRSWEMI-NH2	2061
JBT2018		F	Ac-KYASFPWFVQLHVHKRSWEMA-NH2	2062
JBT2019		F	Ac-GKASFPWFVQLHVHKRSWEMA-NH2	2063
JBT2020		F	Ac-GYKSFPWFVQLHVHKRSWEMA-NH2	2064
JBT2021		F	Ac-GYAKFPWFVQLHVHKRSWEMA-NH2	2065
JBT2022		F	Ac-GYASKPWFVQLHVHKRSWEMA-NH2	2066
JBT2023		G	Ac-GYASFKWFVQLHVHKRSWEMA-NH2	2197
JBT2024		G	Ac-GYASFPKFVQLHVHKRSWEMA-NH2	2198
JBT2025		F	Ac-GYASFPWKVQLHVHKRSWEMA-NH2	2067
JBT2027		F	Ac-GYASFPWFVKLHVHKRSWEMA-NH2	2068

도면36j

샤물 번호	IC50 [nM]	친화도 클래스	서열	서열 번호
JBT2028		F	Ac-GYASFPWFVQKHVIHKRSWEMA-NH2	2069
JBT2029		G	Ac-GYASFPWFVQLKVHKRSWEMA-NH2	2199
JBT2030		F	Ac-GYASFPWFVQLHKHKRSWEMA-NH2	2070
JBT2032			Ac-GYASFPWFVQLHVHKKSWEMA-NH2	2431
JBT2033		F	Ac-GYASFPWFVQLHVHKRKWEMA-NH2	2071
JBT2034		G	Ac-GYASFPWFVQLHVHKRSKEMA-NH2	2200
JBT2035		F	Ac-GYASFPWFVQLHVHKRSWKMA-NH2	2072
JBT2036		G	Ac-GYASFPWFVQLHVHKRSWEKA-NH2	2201
JBT2037		F	Ac-GYASFPWFVQLHVHKRSWEMK-NH2	2073
JBT2038		F	Ac-LYASFPWFVQLHVHKRSWEMA-NH2	2074
JBT2040		F	Ac-GYLSFPWFVQLHVHKRSWEMA-NH2	2075
JBT2041		F	Ac-GYALFPWFVQLHVHKRSWEMA-NH2	2076
JBT2042		G	Ac-GYASLPWFVQLHVHKRSWEMA-NH2	2202
JBT2043			Ac-GYASFLWFVQLHVHKRSWEMA-NH2	2432
JBT2044		G	Ac-GYASFPLFVQLHVHKRSWEMA-NH2	2203
JBT2045		G	Ac-GYASFPWLVQLHVHKRSWEMA-NH2	2204
JBT2046		G	Ac-GYASFPWFLQLHVHKRSWEMA-NH2	2205
JBT2047		F	Ac-GYASFPWFVLLHVHKRSWEMA-NH2	2077
JBT2048		G	Ac-GYASFPWFVQLLVHKRSWEMA-NH2	2206
JBT2049		G	Ac-GYASFPWFVQLHLHKRSWEMA-NH2	2207
JBT2050		G	Ac-GYASFPWFVQLHVLKRSWEMA-NH2	2208
JBT2051			Ac-GYASFPWFVQLHVHLRSWEMA-NH2	2433
JBT2052			Ac-GYASFPWFVQLHVHKLSWEMA-NH2	2434
JBT2053		F	Ac-GYASFPWFVQLHVHKRLWEMA-NH2	2078
JBT2054		G	Ac-GYASFPWFVQLHVHKRSLEMA-NH2	2209
JBT2055		G	Ac-GYASFPWFVQLHVHKRSWLMA-NH2	2210
JBT2056		G	Ac-GYASFPWFVQLHVHKRSWELA-NH2	2211
JBT2057		F	Ac-GYASFPWFVQLHVHKRSWEML-NH2	2079
JBT2058		F	Ac-MYASFPWFVQLHVHKRSWEMA-NH2	2080
JBT2059		G	Ac-GMASFPWFVQLHVHKRSWEMA-NH2	2212

도면36k

사물 번호	IC50 [nM]	친화도 클래스	서열	서열 번호
JBT2060		F	Ac-GYMSFPWFVQLHVHKRSWEMA-NH2	2081
JBT2061		F	Ac-GYAMFPWFVQLHVHKRSWEMA-NH2	2082
JBT2062		G	Ac-GYASMPWFVQLHVHKRSWEMA-NH2	2213
JBT2063			Ac-GYASFMWFVQLHVHKRSWEMA-NH2	2435
JBT2064			Ac-GYASFPMFVQLHVHKRSWEMA-NH2	2436
JBT2065		G	Ac-GYASFPWMVQLHVHKRSWEMA-NH2	2214
JBT2066		G	Ac-GYASFPWFMQLHVHKRSWEMA-NH2	2215
JBT2067		G	Ac-GYASFPWFVMLHVHKRSWEMA-NH2	2216
JBT2068		F	Ac-GYASFPWFVQMHVHKRSWEMA-NH2	2083
JBT2069			Ac-GYASFPWFVQLMVHKRSWEMA-NH2	2437
JBT2070		G	Ac-GYASFPWFVQLHMHKRSWEMA-NH2	2217
JBT2071		G	Ac-GYASFPWFVQLHVMKRSWEMA-NH2	2218
JBT2072			Ac-GYASFPWFVQLHVHMRSWEMA-NH2	2438
JBT2073			Ac-GYASFPWFVQLHVHKMSWEMA-NH2	2439
JBT2075		G	Ac-GYASFPWFVQLHVHKRSMEMA-NH2	2219
JBT2076			Ac-GYASFPWFVQLHVHKRSWMMA-NH2	2440
JBT2077		F	Ac-GYASFPWFVQLHVHKRSWEMM-NH2	2084
JBT2078		F	Ac-NYASFPWFVQLHVHKRSWEMA-NH2	2085
JBT2079		G	Ac-GNASFPWFVQLHVHKRSWEMA-NH2	2220
JBT2080		G	Ac-GYNSFPWFVQLHVHKRSWEMA-NH2	2221
JBT2081		F	Ac-GYANFPWFVQLHVHKRSWEMA-NH2	2086
JBT2082		G	Ac-GYASNPWFVQLHVHKRSWEMA-NH2	2222
JBT2083			Ac-GYASFNWFVQLHVHKRSWEMA-NH2	2441
JBT2084		G	Ac-GYASFPNFVQLHVHKRSWEMA-NH2	2223
JBT2085		G	Ac-GYASFPWNVQLHVHKRSWEMA-NH2	2224
JBT2086			Ac-GYASFPWFNQLHVHKRSWEMA-NH2	2442
JBT2087		G	Ac-GYASFPWFVNLHVHKRSWEMA-NH2	2225
JBT2088		G	Ac-GYASFPWFVQNHVHKRSWEMA-NH2	2226
JBT2089			Ac-GYASFPWFVQLNVHKRSWEMA-NH2	2443
JBT2090			Ac-GYASFPWFVQLHNHKRSWEMA-NH2	2444

도면361

사물 번호	IC50 [nM]	친화도 클래스	서열	서열 번호
JBT2091		G	Ac-GYASFPWFVQLHVNKRSWEMA-NH2	2227
JBT2092			Ac-GYASFPWFVQLHVHNRSWEMA-NH2	2445
JBT2093			Ac-GYASFPWFVQLHVHKNSWEMA-NH2	2446
JBT2094		F	Ac-GYASFPWFVQLHVHKRNWEMA-NH2	2087
JBT2095			Ac-GYASFPWFVQLHVHKRSNEMA-NH2	2447
JBT2096		G	Ac-GYASFPWFVQLHVHKRSWNMA-NH2	2228
JBT2097		G	Ac-GYASFPWFVQLHVHKRSWENA-NH2	2229
JBT2098		F	Ac-GYASFPWFVQLHVHKRSWEMN-NH2	2088
JBT2099		F	Ac-PYASFPWFVQLHVHKRSWEMA-NH2	2089
JBT2100		G	Ac-GPASFPWFVQLHVHKRSWEMA-NH2	2230
JBT2101		G	Ac-GYPSFPWFVQLHVHKRSWEMA-NH2	2231
JBT2103		G	Ac-GYASPPWFVQLHVHKRSWEMA-NH2	2232
JBT2104			Ac-GYASFPPFVQLHVHKRSWEMA-NH2	2448
JBT2105		G	Ac-GYASFPWPVQLHVHKRSWEMA-NH2	2233
JBT2106			Ac-GYASFPWFPQLHVHKRSWEMA-NH2	2449
JBT2107		G	Ac-GYASFPWFVPLHVHKRSWEMA-NH2	2234
JBT2108			Ac-GYASFPWFVQPHVHKRSWEMA-NH2	2450
JBT2109			Ac-GYASFPWFVQLPVHKRSWEMA-NH2	2451
JBT2110			Ac-GYASFPWFVQLHPHKRSWEMA-NH2	2452
JBT2111			Ac-GYASFPWFVQLHVPKRSWEMA-NH2	2453
JBT2112			Ac-GYASFPWFVQLHVHPRSWEMA-NH2	2454
JBT2113			Ac-GYASFPWFVQLHVHKPSWEMA-NH2	2455
JBT2114			Ac-GYASFPWFVQLHVHKRPWEMA-NH2	2456
JBT2115			Ac-GYASFPWFVQLHVHKRSPEMA-NH2	2457
JBT2116		G	Ac-GYASFPWFVQLHVHKRSWPMA-NH2	2235
JBT2118		G	Ac-GYASFPWFVQLHVHKRSWEMP-NH2	2236
JBT2119		G	Ac-QYASFPWFVQLHVHKRSWEMA-NH2	2237
JBT2120			Ac-GQASFPWFVQLHVHKRSWEMA-NH2	2458
JBT2121		G	Ac-GYQSFPWFVQLHVHKRSWEMA-NH2	2238
JBT2122		G	Ac-GYAQFPWFVQLHVHKRSWEMA-NH2	2239

도면36m

사물 번호	IC50 [nM]	친화도 클래스	서열	서열 번호
JBT2123		G	Ac-GYASQPWFVQLHVHKRSWEMA-NH2	2240
JBT2124			Ac-GYASFQWFVQLHVHKRSWEMA-NH2	2459
JBT2125			Ac-GYASFQFVQLHVHKRSWEMA-NH2	2460
JBT2126		G	Ac-GYASFPWQVQLHVHKRSWEMA-NH2	2241
JBT2127			Ac-GYASFPWFQQLHVHKRSWEMA-NH2	2461
JBT2128		G	Ac-GYASFPWFVQQHVHKRSWEMA-NH2	2242
JBT2129			Ac-GYASFPWFVQLQVHKRSWEMA-NH2	2462
JBT2130			Ac-GYASFPWFVQLHQHKRSWEMA-NH2	2463
JBT2131		G	Ac-GYASFPWFVQLHVQKRSWEMA-NH2	2243
JBT2132			Ac-GYASFPWFVQLHVHQRSWEMA-NH2	2464
JBT2133			Ac-GYASFPWFVQLHVHKQSWEMA-NH2	2465
JBT2134		F	Ac-GYASFPWFVQLHVHKRQWEMA-NH2	2090
JBT2135		G	Ac-GYASFPWFVQLHVHKRSQEMA-NH2	2244
JBT2136		G	Ac-GYASFPWFVQLHVHKRSWQMA-NH2	2245
JBT2137		G	Ac-GYASFPWFVQLHVHKRSWEQA-NH2	2246
JBT2138		F	Ac-GYASFPWFVQLHVHKRSWEMQ-NH2	2091
JBT2139		F	Ac-RYASFPWFVQLHVHKRSWEMA-NH2	2092
JBT2140		F	Ac-GRASFPWFVQLHVHKRSWEMA-NH2	2093
JBT2141		F	Ac-GYRSFPWFVQLHVHKRSWEMA-NH2	2094
JBT2142		F	Ac-GYARFPWFVQLHVHKRSWEMA-NH2	2095
JBT2143		F	Ac-GYASRPWFVQLHVHKRSWEMA-NH2	2096
JBT2144		G	Ac-GYASFRWFVQLHVHKRSWEMA-NH2	2247
JBT2145		F	Ac-GYASFPRFVQLHVHKRSWEMA-NH2	2097
JBT2146		F	Ac-GYASFPWRVQLHVHKRSWEMA-NH2	2098
JBT2147		F	Ac-GYASFPWFRQLHVHKRSWEMA-NH2	2099
JBT2148		F	Ac-GYASFPWFVRLHVHKRSWEMA-NH2	2100
JBT2149		F	Ac-GYASFPWFVQRHVHKRSWEMA-NH2	2101
JBT2150		G	Ac-GYASFPWFVQLRVHKRSWEMA-NH2	2248
JBT2151		F	Ac-GYASFPWFVQLHRHKRSWEMA-NH2	2102
JBT2152		F	Ac-GYASFPWFVQLHVRKRSWEMA-NH2	2103

도면36n

사물 번호	IC50 [nM]	친화도 클래스	서열	서열 번호
JBT12153		F	Ac-GYASFPWFVQLHVHRRSWEMA-NH2	2104
JBT12154		F	Ac-GYASFPWFVQLHVHKRRWEMA-NH2	2105
JBT12155		F	Ac-GYASFPWFVQLHVHKRSREMA-NH2	2106
JBT12156		F	Ac-GYASFPWFVQLHVHKRSWRMA-NH2	2107
JBT12157		G	Ac-GYASFPWFVQLHVHKRSWERA-NH2	2249
JBT12158		F	Ac-GYASFPWFVQLHVHKRSWEMR-NH2	2108
JBT12159		F	Ac-SYASFPWFVQLHVHKRSWEMA-NH2	2109
JBT12160		G	Ac-GSASFPWFVQLHVHKRSWEMA-NH2	2250
JBT12161		F	Ac-GYSSFPWFVQLHVHKRSWEMA-NH2	2110
JBT12162		G	Ac-GYASSPWFVQLHVHKRSWEMA-NH2	2251
JBT12163			Ac-GYASFSWFVQLHVHKRSWEMA-NH2	2466
JBT12164		G	Ac-GYASFPSFVQLHVHKRSWEMA-NH2	2252
JBT12165		G	Ac-GYASFPWSVQLHVHKRSWEMA-NH2	2253
JBT12166		G	Ac-GYASFPWFSQLHVHKRSWEMA-NH2	2254
JBT12167		F	Ac-GYASFPWFVSLHVHKRSWEMA-NH2	2111
JBT12168		G	Ac-GYASFPWFVQSHVHKRSWEMA-NH2	2255
JBT12169			Ac-GYASFPWFVQLSVHKRSWEMA-NH2	2467
JBT12170		G	Ac-GYASFPWFVQLHSHKRSWEMA-NH2	2256
JBT12171		G	Ac-GYASFPWFVQLHVSKRSWEMA-NH2	2257
JBT12172			Ac-GYASFPWFVQLHVHSRSWEMA-NH2	2468
JBT12173			Ac-GYASFPWFVQLHVHKSSWEMA-NH2	2469
JBT12174			Ac-GYASFPWFVQLHVHKRSSEMA-NH2	2470
JBT12175			Ac-GYASFPWFVQLHVHKRSWSMA-NH2	2471
JBT12176			Ac-GYASFPWFVQLHVHKRSWESA-NH2	2472
JBT12177			Ac-GYASFPWFVQLHVHKRSWEMS-NH2	2473
JBT12178		F	Ac-TYASFPWFVQLHVHKRSWEMA-NH2	2112
JBT12179		G	Ac-GTASFPWFVQLHVHKRSWEMA-NH2	2258
JBT12180		F	Ac-GYTSFPWFVQLHVHKRSWEMA-NH2	2113
JBT12181		F	Ac-GYATFPWFVQLHVHKRSWEMA-NH2	2114
JBT12182		G	Ac-GYASTPWFVQLHVHKRSWEMA-NH2	2259

도면360

사물 번호	IC50 [nM]	친화도 클래스	서열	서열 번호
JBT2183			Ac-GYASFTWFVQLHVHKRSWEMA-NH2	2474
JBT2184		G	Ac-GYASFPTFVQLHVHKRSWEMA-NH2	2260
JBT2185		G	Ac-GYASFPWTVQLHVHKRSWEMA-NH2	2261
JBT2186		G	Ac-GYASFPWFTQLHVHKRSWEMA-NH2	2262
JBT2187		G	Ac-GYASFPWFVTLHVHKRSWEMA-NH2	2263
JBT2188		G	Ac-GYASFPWFVQTHVHKRSWEMA-NH2	2264
JBT2189			Ac-GYASFPWFVQLTVHKRSWEMA-NH2	2475
JBT2190			Ac-GYASFPWFVQLHTHKRSWEMA-NH2	2476
JBT2191		G	Ac-GYASFPWFVQLHVTKRSWEMA-NH2	2265
JBT2192			Ac-GYASFPWFVQLHVHTRSWEMA-NH2	2477
JBT2193			Ac-GYASFPWFVQLHVHKTSWEMA-NH2	2478
JBT2194		F	Ac-GYASFPWFVQLHVHKRTWEMA-NH2	2115
JBT2195			Ac-GYASFPWFVQLHVHKRSTEMA-NH2	2479
JBT2196			Ac-GYASFPWFVQLHVHKRSWTMA-NH2	2480
JBT2197			Ac-GYASFPWFVQLHVHKRSWETA-NH2	2481
JBT2198		G	Ac-GYASFPWFVQLHVHKRSWEMT-NH2	2266
JBT2199			Ac-VYASFPWFVQLHVHKRSWEMA-NH2	2482
JBT2200			Ac-GVASFPWFVQLHVHKRSWEMA-NH2	2483
JBT2201			Ac-GYVSFPWFVQLHVHKRSWEMA-NH2	2484
JBT2202		G	Ac-GYAVFPWFVQLHVHKRSWEMA-NH2	2267
JBT2203		G	Ac-GYASVPWFVQLHVHKRSWEMA-NH2	2268
JBT2204			Ac-GYASFVWFVQLHVHKRSWEMA-NH2	2485
JBT2205			Ac-GYASFPVFVQLHVHKRSWEMA-NH2	2486
JBT2206		F	Ac-GYASFPWVVQLHVHKRSWEMA-NH2	2116
JBT2207		G	Ac-GYASFPWFVVLHVHKRSWEMA-NH2	2269
JBT2208		F	Ac-GYASFPWFVQVHVHKRSWEMA-NH2	2117
JBT2209			Ac-GYASFPWFVQLVVHKRSWEMA-NH2	2487
JBT2210		G	Ac-GYASFPWFVQLHVVKRSWEMA-NH2	2270
JBT2211			Ac-GYASFPWFVQLHVHVRSWEMA-NH2	2488
JBT2212			Ac-GYASFPWFVQLHVHKVSWEMA-NH2	2489

도면36p

샤물 번호	IC50 [nM]	친화도 클래스	서열	서열 번호
JBT2213		F	Ac-GYASFPWFVQLHVHKRVWEMA-NH2	2118
JBT2214		G	Ac-GYASFPWFVQLHVHKRSVEMA-NH2	2271
JBT2215		G	Ac-GYASFPWFVQLHVHKRSWVMA-NH2	2272
JBT2216		G	Ac-GYASFPWFVQLHVHKRSWEVA-NH2	2273
JBT2217		F	Ac-GYASFPWFVQLHVHKRSWEMV-NH2	2119
JBT2218		G	Ac-WYASFPWFVQLHVHKRSWEMA-NH2	2274
JBT2219		F	Ac-GWASFPWFVQLHVHKRSWEMA-NH2	2120
JBT2220		F	Ac-GYWSFPWFVQLHVHKRSWEMA-NH2	2121
JBT2221		G	Ac-GYAWFPWFVQLHVHKRSWEMA-NH2	2275
JBT2222		F	Ac-GYASWPWFVQLHVHKRSWEMA-NH2	2122
JBT2223			Ac-GYASFWWFVQLHVHKRSWEMA-NH2	2490
JBT2224		F	Ac-GYASFPWWVQLHVHKRSWEMA-NH2	2123
JBT2225		G	Ac-GYASFPWFWQLHVHKRSWEMA-NH2	2276
JBT2226		G	Ac-GYASFPWFVWLHVHKRSWEMA-NH2	2277
JBT2227		F	Ac-GYASFPWFVQWHVHKRSWEMA-NH2	2124
JBT2228			Ac-GYASFPWFVQLWVHKRSWEMA-NH2	2491
JBT2229		G	Ac-GYASFPWFVQLIWHKRSWEMA-NH2	2278
JBT2230		G	Ac-GYASFPWFVQLHVWKRSWEMA-NH2	2279
JBT2231			Ac-GYASFPWFVQLHVHWRSWEMA-NH2	2492
JBT2232			Ac-GYASFPWFVQLHVHKWSWEMA-NH2	2493
JBT2233		G	Ac-GYASFPWFVQLHVHKRWWEMA-NH2	2280
JBT2234		G	Ac-GYASFPWFVQLHVHKRSWWMA-NH2	2281
JBT2235		G	Ac-GYASFPWFVQLHVHKRSWEWA-NH2	2282
JBT2236		F	Ac-GYASFPWFVQLHVHKRSWEMW-NH2	2125
JBT2238		G	Ac-GYYSFPWFVQLHVHKRSWEMA-NH2	2283
JBT2239		G	Ac-GYAYFPWFVQLHVHKRSWEMA-NH2	2284
JBT2240		G	Ac-GYASYPWFVQLHVHKRSWEMA-NH2	2285
JBT2241			Ac-GYASFYWFVQLHVHKRSWEMA-NH2	2494
JBT2242		G	Ac-GYASFPYFVQLHVHKRSWEMA-NH2	2286
JBT2243		F	Ac-GYASFPWYVQLHVHKRSWEMA-NH2	2126

도면36q

사물 번호	IC50 [nM]	친화도 클래스	서열	서열 번호
JBT2244		G	Ac-GYASFPWFYQLHVHKRSWEMA-NH2	2287
JBT2245		G	Ac-GYASFPWFVYLHVHKRSWEMA-NH2	2288
JBT2246		G	Ac-GYASFPWFVQYHVHKRSWEMA-NH2	2289
JBT2247			Ac-GYASFPWFVQLYVHKRSWEMA-NH2	2495
JBT2248		G	Ac-GYASFPWFVQLHYHKRSWEMA-NH2	2290
JBT2249		G	Ac-GYASFPWFVQLHVYKRSWEMA-NH2	2291
JBT2250			Ac-GYASFPWFVQLHVHYRSWEMA-NH2	2496
JBT2251			Ac-GYASFPWFVQLHVHKYSWEMA-NH2	2497
JBT2252		G	Ac-GYASFPWFVQLHVHKRYWEMA-NH2	2292
JBT2253		G	Ac-GYASFPWFVQLHVHKRSYEMA-NH2	2293
JBT2254		G	Ac-GYASFPWFVQLHVHKRSWYMA-NH2	2294
JBT2255		G	Ac-GYASFPWFVQLHVHKRSWEYA-NH2	2295
JBT2256		G	Ac-GYASFPWFVQLHVHKRSWEMY-NH2	2296

도면37

사물 번호	EC50 [nM]		서열	서열 번호
JBT0126	55.6868		비오티닐-Tids-SGYASFPLAVQLHVSKRSKEMALARLYYKTTS-NH2	2498

도면38a

사물 번호	IC50 평균 (nM)	친화도 클래스	서열	서열 번호
JBT0049	ND		Ac-SGNTFVDERLLYFLTIGNMGMYAAQLKFRTS-NH2	3025
JBT0050	2745	E	Ac-SGRGCTKVIVFTFRHNKLIGYERRYNCTS-NH2	3047
JBT0101	251	D	Ac-KKSGVWQTIHPRYFWTMWPDIKGEVIVLFGTSKK-NH2	3036
JBT0129	ND		Ac-SGRG[CTKVIVFTFRHNKLIGYERRYNC]TS-NH2	3026
JBT0176*	39444	G	Ac-KKVGSVTRWSMYGPIFIKFTWTLEQPVGWDHKK-NH2	3056
JBT0177*	>50000		Ac-KKLTGDWTYFWSKVIWGPGVIERQMPVSTFHKK-NH2	3065
JBT0178	72	B	Ac-KKSGVWQTIHPRYFWTMWPDIKGEVIVLFGTKK-NH2	3028
JBT0179	>50000		Ac-KKSGVWQTIHPRYFWTMWPDIKGEVIVLKK-NH2	3066
JBT0180	>50000		Ac-KKSGVWQTIHPRYFWTMWPDIKGEVKK-NH2	3067
JBT0181	>50000		Ac-KKSGVWQTIHPRYFWTMWPDIKKK-NH2	3068
JBT0182	351	D	Ac-KKGVWQTIHPRYFWTMWPDIKGEVIVLFGTSKK-NH2	3037
JBT0183	>50000		Ac-KKQTIHPRYFWTMWPDIKGEVIVLFGTSKK-NH2	3069
JBT0184	>50000		Ac-KKPRYFWTMWPDIKGEVIVLFGTSKK-NH2	3070
JBT0185	45487	G	Ac-KKFWTMWPDIKGEVIVLFGTSKK-NH2	3057
JBT0186	>50000		Ac-KKSGVWQTIHPRYFWTMWPDIKGKK-NH2	3071
JBT0187	>50000		Ac-KKWQTIHPRYFWTMWPDIKGEVIKK-NH2	3072
JBT0188	25532	G	Ac-KKHPRYFWTMWPDIKGEVIVLFKK-NH2	3058
JBT0189	35115	G	Ac-KKYFWTMWPDIKGEVIVLFGTSKK-NH2	3059
JBT0190	100	C	Ac-KKSGNTFVDERLLYFLTIGNMGMYAAQLKFRTSKK-NH2	3031
JBT0191*	8935	F	Ac-MLGVLMRGISALTGDYTARFEFYLNKQTFN-NH2	3054
JBT0193	>50000		Ac-KKSGNTFVDERLLYFLTIGNMGMYAAQLKFKK-NH2	3073
JBT0194	>50000		Ac-KKSGNTFVDERLLYFLTIGNMGMYAAQKK-NH2	3074
JBT0195	>50000		Ac-KKSGNTFVDERLLYFLTIGNMGMYKK-NH2	3075
JBT0196	3457	E	Ac-KKSGNTFVDERLLYFLTIGNMKK-NH2	3048
JBT0197	>50000		Ac-KKTFVDERLLYFLTIGNMGMYAAQLKFRTSKK-NH2	3076
JBT0198	>50000		Ac-KKDERLLYFLTIGNMGMYAAQLKFRTSKK-NH2	3077
JBT0199	>50000		Ac-KKLLYFLTIGNMGMYAAQLKFRTSKK-NH2	3078
JBT0200	>50000		Ac-KKFLTIGNMGMYAAQLKFRTSKK-NH2	3079
JBT0201	>50000		Ac-KKLLYFLTIGNMGMYAAQLKFRKK-NH2	3080
JBT0202	>50000		Ac-KKLYFLTIGNMGMYAAQLKFRTKK-NH2	3081
JBT0203	>50000		Ac-KKYFLTIGNMGMYAAQLKFRTSKK-NH2	3082

도면38b

사물 번호	IC50 평균 (nM)	친화도 클래스	서열	서열 번호
JBT0204	25693	G	Ac-KKSGNTFVDERLLYFLTIGNMGKK-NH2	3060
JBT0205	72	B	Ac-KKSGRGCTKVIVFTFRHNKLIGYERRYNCTSKK-NH2	3029
JBT0206*	3594	E	Ac-TNYTGSEKCIRFVTRRYLGVRINCFHKGS-NH2	3049
JBT0207*	4316	E	Ac-TRNVVRRYECFGSTGCIKYFHISRTGLNK-NH2	3050
JBT0208	ND		Ac-KKSGRGCTKVIVFTFRHNKLIGYERRYNKK-NH2	3027
JBT0209	4756	E	Ac-KKSGRGCTKVIVFTFRHNKLIGYERKK-NH2	3051
JBT0210	20471	G	Ac-KKSGRGCTKVIVFTFRHNKLIGKK-NH2	3061
JBT0211	211	C	Ac-KKGCTKVIVFTFRHNKLIGYERRYNCTSKK-NH2	3032
JBT0212	117	C	Ac-KKKVIVFTFRHNKLIGYERRYNCTSKK-NH2	3033
JBT0213	>50000		Ac-KKVFTFRHNKLIGYERRYNCTSKK-NH2	3083
JBT0214	2277	E	Ac-KKGRGCTKVIVFTFRHNKLIGYKK-NH2	3052
JBT0215	6146	F	Ac-KKGCTKVIVFTFRHNKLIGYERKK-NH2	3055
JBT0216	2123	E	Ac-KKCTKVIVFTFRHNKLIGYERKK-NH2	3053
JBT0217	47024	G	Ac-KKTKVIVFTFRHNKLIGYERRYKK-NH2	3062
JBT0218	32865	G	Ac-KKKVIVFTFRHNKLIGYERRYNKK-NH2	3063
JBT0219	78	B	Ac-KKVIVFTFRHNKLIGYERRYNCKK-NH2	3030
JBT0220	31914	G	Ac-KKIVFTFRHNKLIGYERRYNCTKK-NH2	3064
JBT0344	629	D	Ac-TFVDERLLYFLTIGNMGMYAAQLKF-NH2	3038
JBT0345	271	D	Ac-FVDERLLYFLTIGNMGMYAAQLKF-NH2	3039
JBT0346	214	C	Ac-VDERLLYFLTIGNMGMYAAQLKF-NH2	3034
JBT0347	434	D	Ac-TFVDERLLYFLTIGNMGMYAAQLK-NH2	3040
JBT0348	>5000		Ac-TFVDERLLYFLTIGNMGMYAAQ-NH2	3084
JBT0349	552	D	Ac-GCTKVIVFTFRHNKLIGYERRYNCTS-NH2	3041
JBT0350	527	D	Ac-CTKVIVFTFRHNKLIGYERRYNCTS-NH2	3042
JBT0351	948	D	Ac-TKVIVFTFRHNKLIGYERRYNCTS-NH2	3043
JBT0352	848	D	Ac-GCTKVIVFTFRHNKLIGYERRYNCT-NH2	3044
JBT0353	668	D	Ac-GCTKVIVFTFRHNKLIGYERRYNC-NH2	3045
JBT0357	125	C	Ac-KKGVWQTHPRYFWTMWPDIKGEVIVLFGKK-NH2	3035
JBT0358	802	D	Ac-KKGVWQTHPRYFWTMWPDIKGEVIVLFKK-NH2	3046

도면39

샤물 번호	EC50 [nM]	샤물 명칭	서열 번호
JBT0052	2.8	비오티닐-Tids-KKSGVWQTHPRYFWTMWPDIKGEVIVLFGTSKK-NH2	3004
JBT0053	50.3	비오티닐-Tids-SGNTFVDERLLYFLTIGNMGMYAAQLKFRTS-NH2	3006
JBT0054	2.1	비오티닐-Tids-SGRGCTKVIVFTFRHNKLIGYERRYNCTS-NH2	3002
JBT0057	>5000	Ac-SGNTFVDERLLYFLTIGNMGMYAAQLKFRTS-Tids-라이신(비오틴)-NH2	3018
JBT0058	2.4	Ac-SGRGCTKVIVFTFRHNKLIGYERRYNCTS-Tids-라이신(비오틴)-NH2	3003
JBT0103	4.8	Ac-KKSGVWQTHPRYFWTMWPDIKGEVIVLFGTS-Tids-KK-라이신(비오틴)-NH2	3005
JBT0105	>10000	비오티닐-Tids-SGQFWHGLLLPKGIVLNWTLKPWWMIGAFTS-NH2	3015
JBT0106	>10000	Ac-SGQFWHGLLLPKGIVLNWTLKPWWMIGAFTS-Tids-라이신(비오틴)-NH2	3016
JBT0113	458.7	비오티닐-Tids-LSLVGSFAVLCA-NH2	3007
JBT0117	>50000	비오티닐-Tids-SGRFTTRLWYFSWDRLPWYMPFKQYVLSSTIS-NH2	3019
JBT0118	>50000	비오티닐-Tids-SGSYQWWARPYRMWTGLPYWNQRVIFPWNTS-NH2	3020
JBT0128	>5000	Ac-Tids-SGRVSYYWGVKWSQQMPMSWWPDTWYTFDTS-NH2	3017
JBT0130	1.2	비오티닐-Tids-SGRGjCTKVIVFTFRHNKLIGYERRYNCjTS-NH2	3001
JBT0135	>50000	비오티닐-Tids-LLYFLTIGNMGMYAAQLKFR-NH2	3021
JBT0136	16461.9	비오티닐-Tids-LYFLTIGNMGMYAAQLKFRT-NH2	3014
JBT0137	4120.3	비오티닐-Tids-YFLTIGNMGMYAAQLKFRTS-NH2	3013
JBT0138	2354.6	비오티닐-Tids-YFLTIGNMGMYAAQLKFR-NH2	3012
JBT0139	755.5	비오티닐-Tids-GRGCTKVIVFTFRHNKLIGY-NH2	3008
JBT0140	924.0	비오틴-Tids-GCTKVIVFTFRHNKLIGYER-NH2	3010
JBT0141	800.3	비오틴-Tids-CTKVIVFTFRHNKLIGYERR-NH2	3009
JBT0142	>50000	비오티닐-Tids-TKVIVFTFRHNKLIGYERRY-NH2	3022
JBT0143	4229.9	비오티닐-Tids-KVIVFTFRHNKLIGYERRYN-NH2	3023
JBT0144	1327.0	비오틴-Tids-VIVFTFRHNKLIGYERRYNC-NH2	3011
JBT0145	650.9	비오틴-Tids-VIVFTFRHNKLIGYER-NH2	3024

서 열 목 록

SEQUENCE LISTING

<110> Dockal, et al.

<120> TFPI INHIBITORS AND METHODS OF USE

<130> 31315/44241A

<150> 61/139,272

<151> 2008-12-19

<160> 3145

<170> PatentIn version 3.5

<210> 1

<211> 18

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<400> 1

Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu Arg

1 5 10 15

Ala Lys

<210> 2

<211> 20

<212

> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> Xaa is selected from the group consisting of Val, Trp, Tyr, and

Phe

<220><221> MOD_RES

<222> (2)..(2)

<223> Xaa is selected from the group consisting of Asp, Gln, and Ser

<220><221> MOD_RES

<222> (3)..(3)

<223> Xaa is selected from the group consisting of Glu, Thr, Ans, and

Ser

<220><221> MOD_RES

<222> (5)..(5)

<223> Xaa is selected from the group consisting of Leu, Pro, Lys, Ser,

Trp, Val, Asn and Gln

<220><221> MOD_RES

<222> (9)..(9)

<223> Xaa is selected from the group consisting of Leu, Trp, Val, Ala,

Met, Thr, and Ser

<220><221> MOD_RES

<222> (10)..(10)

<223> Xaa is selected from the group consisting of Thr, Phe, Val, Arg, Ala, Asp, Leu, Glu, Ser, and Tyr

<220><221> MOD_RES

<222> (13)..(13)

<223> Xaa is selected from the group consisting of Asn, Pro, Phe, His, Lys, and Tyr

<220><221> MOD_RES

<222> (14)..(14)

<223

> Xaa is selected from the group consisting of Met, Asp, Glu, Val, Gly, and Lys

<220><221> MOD_RES

<222> (20)..(20)

<223> Xaa is selected from the group consisting of Gln, Ile, Gle, Trp, Arg, Leu, and Asn

<400> 2

Xaa Xaa Xaa Lys Xaa Asn Val Phe Xaa Xaa Gly Tyr Xaa Xaa Arg Leu
1 5 10 15

Arg Ala Lys Xaa
20

<210> 3

<211> 25

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<400> 3

Thr Phe Val Asp Glu Arg Leu Leu Tyr Phe Leu Thr Ile Gly Asn Met
1 5 10 15

Gly Met Tyr Ala Ala Gln Leu Lys Phe
20 25

<210> 4

<211> 18

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<400> 4

Val Ile Val Phe Thr Phe Arg His Asn Lys Leu Ile Gly Tyr Glu Arg

1 5 10 15

Arg Tyr

<210> 5

<211> 27

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<400> 5

Gly Val Trp Gln Thr His Pro Arg Tyr Phe Trp Thr Met Trp Pro Asp

1 5 10 15

Ile Lys Gly Glu Val Ile Val Leu Phe Gly Thr

20 25

<210> 6

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<400> 6

Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met Ser Cys Val

1 5 10 15

Trp Val Lys Phe

20

<210> 7

<211> 19

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<400> 7

Ala Ser Phe Pro Leu Ala Val Gln Leu His Val Ser Lys Arg Ser Lys

1 5 10 15

Glu Met Ala

<210> 8

<211> 35

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (35)..(35)

<223> C-terminal amidation

<400> 8

Lys Lys Ser Gly Val Gly Arg Leu Gln Val Ala Phe Gln Ser Lys Lys

1 5 10 15

Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu Arg Ala Lys Leu Thr

20 25 30

Ser Lys Lys

35

<210> 9

<211> 32

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221

> MOD_RES

<222> (32)..(32)

<223> C-terminal amidation

<400> 9

Lys Lys Ser Gly Val Gly Arg Leu Gln Val Ala Phe Gln Ser Lys Lys
1 5 10 15

Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu Arg Ala Lys Lys Lys
20 25 30

<210> 10

<211> 32

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220

><221> MOD_RES

<222> (32)..(32)

<223> C-terminal amidation

<400> 10

Lys Lys Gly Arg Leu Gln Val Ala Phe Gln Ser Lys Lys Asn Val Phe
1 5 10 15

Val Phe Gly Tyr Phe Glu Arg Leu Arg Ala Lys Leu Thr Ser Lys Lys
20 25 30

<210> 11

<211> 29

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (29)..(29)

<223> C-terminal amidation

<400> 11

Lys Lys Gln Val Ala Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly

1 5 10 15

Tyr Phe Glu Arg Leu Arg Ala Lys Leu Thr Ser Lys Lys

20 25

<210> 12

<211> 26

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (26)..(26)

<223> C-terminal amidation

<400> 12

Lys Lys Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu

1 5 10 15

Arg Leu Arg Ala Lys Leu Thr Ser Lys Lys

20 25

<210> 13

<211> 24

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (24)..(24)

<223> C-terminal amidation

<400> 13

Lys Lys Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu

1 5 10 15

Arg Leu Arg Ala Lys Leu Lys Lys

20

<210> 14

<211> 25

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (25)..(25)

<223> C-terminal amidation

<400> 14

Lys Lys Ala Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe

1 5 10 15

Glu Arg Leu Arg Ala Lys Leu Lys Lys

20 25

<210> 15

<211> 36

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (2)..(2)

<223> Xaa is Carboxyfluorescein

<220><221> MOD_RES

<222> (36)..(36)

<223> C-terminal amidation

<400> 15

Lys Xaa Lys Ser Gly Val Gly Arg Leu Gln Val Ala Phe Gln Ser Lys

1 5 10 15

Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu Arg Ala Lys Leu

20 25 30

Thr Ser Lys Lys

35

<210> 16

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 16

Phe Gln Ser Lys Asn Asn Val Phe Val Asp Gly Tyr Phe Asp Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 17

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 17

Phe Gln Ser Lys Asn Asn Val Phe Val Gln Gly Tyr Phe Asp Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 18

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 18

Phe Gln Ser Lys Asn Asn Val Phe Val Ser Gly Tyr Phe Asp Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 19

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 19

Phe Gln Ser Lys Asn Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 20

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 20

Phe Gln Ser Lys Asp Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 21

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 21

Phe Gln Ser Lys Lys Asn Val Phe Val Glu Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 22

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 22

Phe Gln Ser Lys Lys Asn Val Phe Val Thr Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 23

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 23

Phe Gln Ser Lys Lys Asn Val Phe Val His Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 24

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 24

Phe Gln Ser Lys Lys Asn Val Phe Val Met Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 25

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 25

Phe Gln Ser Lys Lys Asn Val Phe Val Asn Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 26

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 26

Phe Gln Ser Lys Gly Asn Val Phe Val Thr Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 27

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 27

Phe Gln Ser Lys Gly Asn Val Phe Val Asn Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 28

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 28

Phe Gln Ser Lys Gly Asn Val Phe Val His Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 29

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 29

Phe Gln Ser Lys Gly Asn Val Phe Val Lys Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 30

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 30

Phe Gln Ser Lys Gly Asn Val Phe Val Glu Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 31

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 31

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Asp Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 32

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 32

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 33

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 33

Phe Gln Ser Lys Asp Asn Val Phe Val Thr Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 34

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 34

Phe Gln Ser Lys Asp Asn Val Phe Val Asn Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 35

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 35

Phe Gln Ser Lys Asp Asn Val Phe Val His Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 36

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 36

Phe Gln Ser Lys Asp Asn Val Phe Val Lys Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 37

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 37

Phe Gln Ser Lys Asp Asn Val Phe Val Glu Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 38

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 38

Phe Gln Ser Lys Asp Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 39

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 39

Phe Gln Ser Lys Asn Asn Val Phe Val Thr Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 40

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 40

Phe Gln Ser Lys Asn Asn Val Phe Val Asn Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 41

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 41

Phe Gln Ser Lys Asn Asn Val Phe Val His Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 42

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 42

Phe Gln Ser Lys Asn Asn Val Phe Val Lys Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 43

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 43

Phe Gln Ser Lys Asn Asn Val Phe Val Glu Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 44

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 44

Phe Gln Ser Lys Gln Asn Val Phe Val Thr Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 45

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 45

Phe Gln Ser Lys Gln Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 46

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (5)..(5)

<223> N-methyl-Gly

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 46

Phe Gln Ser Lys Gly Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 47

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (5)..(5)

<223> N-methyl-Gly

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 47

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Ala Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 48

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 48

Phe Gln Ser Lys Gly Asn Val His Val Lys Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 49

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 49

Phe Gln Ser Lys Gly Asn Val His Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 50

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 50

Phe Gln Ser Pro Gly Asn Val His Val Lys Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 51

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 51

Phe Gln Ser Pro Gly Asn Val His Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 52

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 52

Phe Gln Ser Lys Gly Asn Ile Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 53

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (5)..(5)

<223> D-Ala

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 53

Phe Gln Ser Lys Ala Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 54

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (5)..(5)

<223> D-Ala

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 54

Phe Gln Ser Lys Ala Asn Val Phe Val Thr Gly Tyr Phe Ala Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 55

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (5)..(5)

<223> N-methyl-Gly

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 55

Phe Gln Ser Lys Gly Ala Val Phe Val Asp Gly Tyr Phe Ala Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 56

<211> 20

<212

> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (17)..(17)

<223> Xaa is (S)-Diaminopropionic acid

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 56

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Xaa Ala Lys Leu

20

<210> 57

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (1)..(1)

<223> (S)-Ornithine

<220><221> misc_feature

<222> (17)..(17)

<223> Xaa can be any naturally occurring amino acid

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 57

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Xaa Ala Lys Leu

20

<210> 58

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (17)..(17)

<223> Xaa is (S)-2-Amino-pentanoic acid

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 58

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Xaa Ala Lys Leu

20

<210> 59

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (5)..(5)

<223> D-Ala

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 59

Phe Gln Ser Lys Ala Asn Val Phe Val Ala Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 60

<211

> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (5)..(5)

<223> D-Ala

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 60

Phe Gln Ser Lys Ala Ala Val Phe Val Asp Gly Tyr Phe Ala Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 61

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (5)..(5)

<223> N-methyl-Gly

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 61

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 62

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (5)..(5)

<223> N-methyl-Gly

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 62

Phe Gln Ser Lys Gly Asn Val Phe Val Thr Gly Tyr Phe Ala Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 63

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222>

(1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (17)..(17)

<223> (S)-Homo-Citrulline

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 63

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Xaa Ala Lys Leu

20

<210> 64

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223>

N-terminal acetylation

<220><221> MOD_RES

<222> (17)..(17)

<223> (S)-Homo-Arg

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 64

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 65

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (17)..(17)

<223> (S)-2-Pyridyl-Ala

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 65

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ala Ala Lys Leu

20

<210> 66

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (17)..(17)

<223> Xaa is 2-Amino-isobutryic acid

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 66

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Xaa Ala Lys Leu

20

<210> 67

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (5)..(5)

<223> N-methyl-Gly

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 67

Phe Gln Ser Lys Gly Ala Val Phe Val Thr Gly Tyr Phe Ala Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 68

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (17)..(17)

<223> (S)-N(omega)-nitro-Arg

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 68

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 69

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 69

Phe Gln Ser Lys Gly Asn Val Phe Val Thr Gly Tyr Phe Asp Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 70

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (5)..(5)

<223> N-methyl-Gly

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 70

Phe Gln Ser Lys Gly Asn Val Phe Val Phe Gly Tyr Phe Ala Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 71

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (5)..(5)

<223> N-methyl-Gly

<220><221> MOD_RES

<222> (17)..(17)

<223> Xaa is (S)-Norleucine

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 71

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Xaa Ala Lys Leu
20

<210> 72

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 72

Phe Gln Ser Lys Gly Ala Val Phe Val Asp Gly Tyr Phe Glu Arg Leu
1 5 10 15

Arg Ala Lys Leu
20

<210> 73

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 73

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Ala Arg Leu
1 5 10 15

Arg Ala Lys Leu

20

<210> 74

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (5)..(5)

<223> N-methyl-Gly

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 74

Phe Gln Ser Lys Gly Asn Val Phe Val Ala Gly Tyr Phe Ala Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 75

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222>

(20)..(20)

<223> C-terminal amidation

<400> 75

Phe Gln Ser Glu Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 76

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 76

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

His Ala Lys Leu

20

<210> 77

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 77

Phe Gln Ser Ile Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 78

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 78

Phe Gln Ser Lys Gly Asn Ile Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 79

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (5)..(5)

<223> D-Ala

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 79

Phe Gln Ser Lys Ala Asn Val Phe Val Thr Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 80

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 80

Phe Gln Ser Lys Gly Lys Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 81

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 81

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Lys Ala Lys Leu

20

<210> 82

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (17)..(17)

<223> (S)-2-Propargylglycine

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 82

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Gly Ala Lys Leu

20

<210> 83

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 83

Phe Gln Ser Leu Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 84

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 84

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Leu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 85

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (17)..(17)

<223> Xaa is (S)-2,4-Diaminobutyric acid

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 85

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Xaa Ala Lys Leu

20

<210> 86

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220

><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 86

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Leu Ala Lys Leu

20

<210> 87

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 87

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Leu Lys Leu

20

<210> 88

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 88

Met Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 89

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 89

Phe Gln Met Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 90

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 90

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Met Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 91

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 91

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Met Lys Leu

20

<210> 92

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (17)..(17)

<223> (S)-Cyclohexylalanine

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 92

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ala Ala Lys Leu

20

<210> 93

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 93

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Asn Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 94

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 94

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Asn Lys Leu

20

<210> 95

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 95

Phe Gln Ser Pro Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 96

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (17)..(17)

<223> (S)-2-Amino-5-methyl-hexanoic acid

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 96

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Xaa Ala Lys Leu

20

<210

> 97

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 97

Phe Gln Gln Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 98

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 98

Phe Gln Ser Lys Gly Gln Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 99

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 99

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Gln Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 100

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 100

Phe Gln Arg Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 101

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 101

Phe Gln Ser Arg Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 102

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 102

Phe Gln Ser Lys Gly Arg Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 103

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 103

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Arg Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 104

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (17)..(17)

<223> Xaa is Norleucine

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 104

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Xaa Ala Lys Leu

20

<210> 105

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 105

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Arg Lys Leu

20

<210> 106

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (5)..(5)

<223> D-Ala

<220><221> MOD_RES

<222> (17)..(17)

<223> Xaa is Norleucine

<220>

<221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 106

Phe Gln Ser Lys Ala Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Xaa Ala Lys Leu

20

<210> 107

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 107

Phe Gln Ser Lys Gly Ser Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 108

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 108

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Thr Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 109

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (5)..(5)

<223> N-methyl-Gly

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 109

Phe Gln Ser Lys Gly Ala Val Phe Val Ala Gly Tyr Phe Ala Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 110

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 110

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Val Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 111

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 111

Tyr Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 112

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 112

Phe Gln Ser Lys Gly Asn Val Tyr Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 113

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (17)..(17)

<223> Xaa is Norleucine

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 113

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Ala Arg Leu

1 5 10 15

Xaa Ala Lys Leu

20

<210> 114

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal Carboxyfluorescein

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 114

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 115

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (5)..(5)

<223> D-Lys

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 115

Phe Gln Ser Lys Lys Ala Val Phe Val Asp Gly Tyr Phe Ala Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 116

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 116

Phe Gln Ser Lys Gly Ala Val Phe Val Asp Gly Tyr Phe Ala Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 117

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (5)..(5)

<223> D-Asp

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 117

Phe Gln Ser Lys Asp Ala Val Phe Val Asp Gly Tyr Phe Ala Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 118

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (5)..(5)

<223> D-Lys

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 118

Phe Gln Ser Lys Lys Ala Val Phe Val Ala Gly Tyr Phe Ala Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 119

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (5)..(5)

<223> D-Lys

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 119

Phe Gln Ser Lys Asp Ala Val Phe Val Ala Gly Tyr Phe Ala Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 120

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (5)..(5)

<223> D-Lys

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 120

Phe Gln Ser Lys Lys Ala Val Phe Val Lys Gly Tyr Phe Ala Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 121

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (5)..(5)

<223> D-Lys

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 121

Phe Gln Ser Lys Asp Ala Val Phe Val Lys Gly Tyr Phe Ala Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 122

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (5)..(5)

<223> D-Lys

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 122

Phe Gln Ser Lys Lys Ala Val Phe Val Thr Gly Tyr Phe Ala Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 123

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (5)..(5)

<223> D-Asp

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 123

Phe Gln Ser Lys Asp Ala Val Phe Val Thr Gly Tyr Phe Ala Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 124

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal Carboxyfluorescein

<220><221> MOD_RES

<222> (1)..(1)

<223> Xaa is (13-Amino-4,7,10-trioxa-tridecayl)-succinamic acid

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 124

Xaa Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg

1 5 10 15

Leu Arg Ala Lys Leu

20

<210> 125

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (5)..(5)

<223> N-methyl-Gly

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 125

Phe Gln Ser Lys Gly Asn Val Phe Val Thr Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 126

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (5)..(5)

<223> D-Ala

<220><221> MOD_RES

<222> (17)..(17)

<223> Xaa is Norleucine

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 126

Phe Gln Ser Lys Ala Asn Val Phe Val Asp Gly Tyr Phe Ala Arg Leu
1 5 10 15

Xaa Ala Lys Leu
20

<210> 127

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (5)..(5)

<223> D-Ala

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 127

Phe Gln Ser Lys Ala Asn Val Phe Val Ala Gly Tyr Phe Ala Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 128

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (5)..(5)

<223> D-Pro

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal N-ethyl

<400> 128

Phe Gln Ser Lys Gly Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 129

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 129

Phe Gln Ser Lys Pro Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu
1 5 10 15

Arg Ala Lys Leu
20

<210> 130

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222
> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 130

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu
1 5 10 15

Arg Ala Lys Leu Cys
20

<210> 131

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 131

Phe Gln Ser Lys Gly Asn Val Phe Val Ser Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 132

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 132

Phe Gln Ser Lys Gly Asn Val Phe Val Val Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 133

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 133

Phe Gln Ser Lys His His Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ala Ala Lys Leu

20

<210> 134

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 134

Phe Gln Ser Arg Arg Gly Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ala Ala Lys Leu

20

<210> 135

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 135

Phe Gln Cys Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 136

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 136

Phe Gln Ser Lys Gly Cys Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 137

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 137

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Cys Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 138

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 138

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Cys Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 139

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 139

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Cys Ala Lys Leu

20

<210> 140

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 140

Phe Gln Ser Lys Ala Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Cys Ala Lys Leu

20

<210> 141

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 141

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Met Arg Leu

1 5 10 15

Cys Ala Lys Leu

20

<210> 142

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 142

Phe Gln Ser Lys Asp Asn Val Phe Val His Gly Tyr Phe Glu Arg Leu

1 5 10 15

Cys Ala Lys Leu

20

<210> 143

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 143

Tyr Gln Ser Lys Asn Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Cys Ala Lys Leu

20

<210> 144

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 144

Phe Gln Ser Lys Gly His Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Cys Ala Lys Leu

20

<210> 145

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 145

Phe Gln Ser Lys Gln Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Cys Ala Lys Leu

20

<210> 146

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 146

Phe Gln Ser Lys Glu Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Cys Ala Lys Leu

20

<210> 147

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 147

Phe Gln Ser Lys Lys Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Cys Ala Lys Leu

20

<210> 148

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 148

Phe Gln Ser Lys Asp Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Cys Ala Lys Leu

20

<210> 149

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 149

Phe Gln Ser Lys Asn Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Cys Ala Lys Leu

20

<210> 150

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 150

Phe Gln Ser Lys Asp His Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Cys Ala Lys Leu

20

<210> 151

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 151

Phe Gln Ser Lys His Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Cys Ala Lys Leu

20

<210> 152

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 152

Phe Gln Ser Lys His His Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Cys Ala Lys Leu

20

<210> 153

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 153

Phe Gln Ser Lys His Asn Val Tyr Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Cys Ala Lys Leu

20

<210> 154

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 154

Phe Gln Ser Arg Arg Gly Val Phe Val Asp Gly Tyr Phe Glu Arg Leu
1 5 10 15

Cys Ala Lys Leu
20

<210> 155

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 155

Tyr Gln Ser Lys Gln Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu
1 5 10 15

Cys Ala Lys Leu
20

<210> 156

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 156

Phe Gln Ser Glu His Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Cys Ala Lys Leu

20

<210> 157

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 157

Phe Gln Ser Lys Asn Asp Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Cys Ala Lys Leu

20

<210> 158

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 158

Phe Gln Ser Lys Arg Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Cys Ala Lys Leu

20

<210> 159

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 159

Phe Gln Ser Pro Lys Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Cys Ala Lys Leu

20

<210> 160

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 160

Phe Gln Ser Gly Lys Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Cys Ala Lys Leu

20

<210> 161

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (5)..(5)

<223> N-methyl-Gly

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 161

Phe Gln Ser Lys Gly Asn Val Phe Val Ala Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 162

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (4)..(4)

<223> Xaa is 2-Amino-isobutyric acid

<220><221> MOD_RES

<222> (17)..(17)

<223> Xaa is 2-Amino-isobutyric acid

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 162

Phe Gln Ser Xaa Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Xaa Ala Lys Leu

20

<210> 163

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220>

<221> MOD_RES

<222> (5)..(5)

<223> Xaa is 2-Amino-isobutyric acid

<220><221> MOD_RES

<222> (17)..(17)

<223> Xaa is 2-Amino-isobutyric acid

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 163

Phe Gln Ser Lys Xaa Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Xaa Ala Lys Leu

20

<210> 164

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220

><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (5)..(5)

<223> N-methyl-Gly

<220><221> MOD_RES

<222> (17)..(17)

<223> Xaa is 2-Amino-isobutyric acid

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 164

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Xaa Ala Lys Leu

20

<210> 165

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (5)..(5)

<223> N-methyl-Gly

<220><221> MOD_RES

<222> (17)..(17)

<223> Xaa is 2-Amino-isobutyric acid

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 165

Phe Gln Ser Lys Gly Asn Val Phe Val Thr Gly Tyr Phe Glu Arg Leu

1 5 10 15

Xaa Ala Lys Leu

20

<210> 166

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal Aminooxy acetate

<220><221> MOD_RES

<222> (17)..(17)

<223> Xaa is 2-Amino-isobutyric acid

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 166

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Xaa Ala Lys Leu

20

<210> 167

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (14)..(21)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (17)..(17)

<223> Xaa is 2-Amino-isobutyric acid

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 167

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Xaa Ala Lys Leu Cys

20

<210> 168

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (14)..(21)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (17)..(17)

<223> Xaa is 2-Amino-isobutryic acid

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 168

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Cys Arg Leu

1 5 10 15

Xaa Ala Lys Leu Cys

20

<210> 169

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 169

Phe Gln Ser Lys Gly Asn Ile Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

His Ala Lys Leu

20

<210> 170

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 170

Phe Gln Ser Lys Asn Asn Val Phe Val Asp Gly Tyr Phe Lys Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 171

<211> 20

<212> PRT

<213> Artificial Sequence

<

220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 171

Tyr Gln Thr Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 172

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 172

Phe Gln Thr Lys Asp Asn Val His Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 173

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 173

Leu Gln Gln Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 174

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal pegylation

<220><221> MOD_RES

<222> (17)..(17)

<223> Xaa is 2-Amino-isobutyric acid

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 174

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Xaa Ala Lys Leu

20

<210> 175

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal pegylation

<220><221> MOD_RES

<222> (17)..(17)

<223> Xaa is 2-Amino-isobutyric acid

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 175

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Xaa Ala Lys Leu

20

<210> 176

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (17)..(17)

<223> Xaa is 2-Amino-isobutyric acid

<220><221> MOD_RES

<222> (21)..(21)

<223> PEGYLATION

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 176

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu
1 5 10 15

Xaa Ala Lys Leu Cys
20

<210> 177

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (5)..(5)

<223> D-Pro

<220><221> MOD_RES

<222> (17)..(17)

<223> Xaa is 2-Amino-isobutyric acid

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 177

Phe Gln Ser Lys Pro Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu
1 5 10 15

Xaa Ala Lys Leu

20

<210> 178

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (5)..(5)

<223> D-Pro

<220><221> MOD_RES

<222> (17)..(17)

<223> Xaa is 2-Amino-isobutyric acid

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 178

Phe Gln Ser Lys Pro Asn Val His Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Xaa Ala Lys Leu

20

<210> 179

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 179

Pro Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg

1 5 10 15

Leu Arg Ala Lys Leu

20

<210> 180

<211> 22

<212> PRT

<213

> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 180

Pro Glu Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu

1 5 10 15

Arg Leu Arg Ala Lys Leu

20

<210> 181

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (6)..(6)

<223> (S)-N-methyl-Glu

<220><221> MOD_RES

<222> (18)..(18)

<223> Xaa is 2-Amino-isobutyric acid

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 181

Pro Phe Gln Ser Lys Glu Asn Val Phe Val Asp Gly Tyr Phe Glu Arg

1 5 10 15

Leu Xaa Ala Lys Leu

20

<210> 182

<211> 26

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (26)..(26)

<223> C-terminal amidation

<400> 182

Lys Lys Ala Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe

1 5 10 15

Glu Arg Leu Arg Ala Lys Leu Thr Lys Lys

20 25

<210> 183

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221

> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 183

Phe Gln Ser Lys Asn Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 184

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222

> (20)..(20)

<223> C-terminal amidation

<400> 184

Phe Gln Ser Lys Lys Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 185

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 185

Phe Gln Ser Lys Lys Asn Val Phe Val Ser Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 186

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 186

Phe Gln Ser Lys Asn Asn Val Phe Val Tyr Gly Tyr Phe Asp Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 187

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 187

Phe Gln Ser Lys Asn Asn Val Phe Val Phe Gly Tyr Phe Asp Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 188

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 188

Phe Gln Ser Lys Lys Asn Val Phe Val Asp Gly Tyr Phe Asp Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 189

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal Carboxyfluorescein

<220><221

> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 189

Ala Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg

1 5 10 15

Leu Arg Ala Lys

20

<210> 190

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 190

Phe Gln Ser Lys Gly Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 191

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 191

Phe Gln Ser Lys Lys Asn Val Phe Val Val Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 192

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 192

Phe Gln Ser Lys Lys Asn Val His Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 193

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 193

Phe Gln Ser Lys Lys Asn Val Phe Val Lys Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 194

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 194

Phe Gln Ser Lys Lys Asn Val Phe Val Pro Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 195

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 195

Phe Gln Ser Lys Lys Asn Val Phe Val Arg Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 196

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 196

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Glu Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 197

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 197

Phe Gln Ser Lys Gln Asn Val Phe Val Asn Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 198

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 198

Phe Gln Ser Lys Gln Asn Val Phe Val His Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 199

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 199

Phe Gln Ser Lys Gln Asn Val Phe Val Lys Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 200

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 200

Phe Gln Ser Lys Gln Asn Val Phe Val Glu Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 201

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (1)..(1)

<223> (S)-N-methyl-phenylalanine

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 201

Ala Gln Ser Lys Gly Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 202

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (4)..(4)

<223> (S)-N-methyl-lysine

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 202

Phe Gln Ser Lys Gly Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 203

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (17)..(17)

<223> beta-Homoarginine

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 203

Phe Gln Ser Lys Gly Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 204

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> beta-Homoleucine

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 204

Phe Gln Ser Lys Gly Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 205

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 205

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Lys Arg Leu
1 5 10 15

Arg Ala Lys Leu
20

<210> 206

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (5)..(5)

<223> N-methyl-Gly

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 206

Phe Gln Ser Lys Gly Ala Val Phe Val Phe Gly Tyr Phe Ala Arg Leu
1 5 10 15

Arg Ala Lys Leu
20

<210> 207

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (5)..(5)

<223> D-Lys

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 207

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 208

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 208

Phe Gln Ser Lys Gly Asn Val Phe Val Asn Gly Tyr Phe Asp Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 209

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 209

Phe Gln Ser Lys Gly Asn Val Phe Val Lys Gly Tyr Phe Asp Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 210

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 210

Phe Gln Ser Lys Gly Asn Val Phe Val Glu Gly Tyr Phe Asp Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 211

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 211

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Lys Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 212

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 212

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ala Ala Lys Leu

20

<210> 213

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (5)..(5)

<223> N-methyl-Gly

<220><221> MOD_RES

<222> (17)..(17)

<223> Xaa is Norleucine

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 213

Phe Gln Ser Lys Gly Asn Val Phe Val Thr Gly Tyr Phe Glu Arg Leu

1 5 10 15

Xaa Ala Lys Leu

20

<210> 214

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (5)..(5)

<223> D-Ala

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 214

Phe Gln Ser Lys Ala Ala Val Phe Val Thr Gly Tyr Phe Ala Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 215

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (5)..(5)

<223> D-Ala

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 215

Phe Gln Ser Lys Ala Asn Val Phe Val Asp Gly Tyr Phe Ala Arg Leu
1 5 10 15

Arg Ala Lys Leu
20

<210> 216

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 216

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu
1 5 10 15

Ile Ala Lys Leu
20

<210> 217

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (5)..(5)

<223> D-Ala

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 217

Phe Gln Ser Lys Ala Asn Val Phe Val Phe Gly Tyr Phe Ala Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 218

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (5)..(5)

<223> N-methyl-Gly

<220><221> MOD_RES

<222> (17)..(17)

<223> Xaa is Norleucine

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 218

Phe Gln Ser Lys Gly Ala Val Phe Val Ala Gly Tyr Phe Ala Arg Leu

1 5 10 15

Xaa Ala Lys Leu

20

<210> 219

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 219

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Val Ala Lys Leu

20

<210> 220

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 220

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Trp Arg Leu
1 5 10 15

Arg Ala Lys Leu
20

<210> 221

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 221

Phe Gln Ser Lys Asp Ala Val Phe Val Asp Gly Tyr Phe Ala Arg Leu
1 5 10 15

Arg Ala Lys Leu
20

<210> 222

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 222

Phe Gln Ser Lys Gly Ala Val Phe Val Ala Gly Tyr Phe Ala Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 223

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 223

Phe Gln Ser Lys Asp Ala Val Phe Val Ala Gly Tyr Phe Ala Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 224

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 224

Phe Gln Ser Lys Gly Ala Val Phe Val Lys Gly Tyr Phe Ala Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 225

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 225

Phe Gln Ser Lys Asp Ala Val Phe Val Lys Gly Tyr Phe Ala Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 226

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 226

Phe Gln Ser Lys Gly Ala Val Phe Val Thr Gly Tyr Phe Ala Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 227

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 227

Phe Gln Ser Lys Asp Ala Val Phe Val Thr Gly Tyr Phe Ala Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 228

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal N-methyl

<400> 228

Phe Gln Ser Lys Gly Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 229

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 229

Phe Gln Ser Lys Phe Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 230

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 230

Phe Gln Ser Lys Gly Asn Val Phe Val Ala Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 231

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 231

Phe Gln Ser Lys Gly Asn Val Phe Val Met Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 232

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 232

Phe Gln Ser Lys Gly Asn Val Phe Val Pro Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 233

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 233

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Met Arg Leu

1 5 10 15

Ala Ala Lys Leu

20

<210> 234

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 234

Tyr Gln Ser Lys Asn Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ala Ala Lys Leu

20

<210> 235

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 235

Phe Gln Ser Lys Gly His Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ala Ala Lys Leu

20

<210> 236

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 236

Phe Gln Ser Lys Lys Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ala Ala Lys Leu

20

<210> 237

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 237

Phe Gln Thr Lys His Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ala Ala Lys Leu

20

<210> 238

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 238

Phe Gln Ser Lys Tyr Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ala Ala Lys Leu

20

<210> 239

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 239

Phe Gln Ser Lys Asn Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu
1 5 10 15

Ala Ala Lys Leu
20

<210> 240

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 240

Phe Gln Ser Lys Asp His Val Phe Val Asp Gly Tyr Phe Glu Arg Leu
1 5 10 15

Ala Ala Lys Leu
20

<210> 241

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 241

Phe Gln Ser Lys His Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ala Arg Lys Leu

20

<210> 242

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 242

Phe Gln Ser Lys His Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ala Ala Lys Leu

20

<210> 243

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 243

Phe Gln Ser Lys Leu Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ala Ala Lys Leu

20

<210> 244

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 244

Phe Gln Ser Val Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ser Ala Lys Leu

20

<210> 245

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 245

Phe Gln Ser Tyr Lys Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu
1 5 10 15

Arg Ala Lys Leu
20

<210> 246

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 246

Phe Gln Ser Gly Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu
1 5 10 15

Cys Ala Lys Leu
20

<210> 247

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (13)..(13)

<223> Xaa is 2-Amino-isobutyric acid

<220><221> MOD_RES

<222> (17)..(17)

<223> Xaa is 2-Amino-isobutyric acid

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 247

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Xaa Glu Arg Leu

1 5 10 15

Xaa Ala Lys Leu

20

<210> 248

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (14)..(14)

<223> Xaa is 2-Amino-isobutyric acid

<220><221> MOD_RES

<222> (17)..(17)

<223> Xaa is 2-Amino-isobutyric acid

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 248

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Xaa Arg Leu

1 5 10 15

Xaa Ala Lys Leu

20

<210> 249

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 249

Phe Gln Ser Tyr Lys His Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 250

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 250

Phe Gln Ser Lys Gly Ile Val Phe Val Asp Gly Tyr Phe Lys Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 251

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 251

Phe Gln Ser Tyr Lys Arg Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 252

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (17)..(17)

<223> Xaa is 2-Amino-isobutyric acid

<220><221> MOD_RES

<222> (21)..(21)

<223> PEGYLATION

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 252

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Xaa Ala Lys Leu Cys

20

<210> 253

<211> 31

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (31)..(31)

<223> C-terminal amidation

<400> 253

Ser Gly Val Gly Arg Leu Gln Val Ala Phe Gln Ser Lys Lys Asn Val

1 5 10 15

Phe Val Phe Gly Tyr Phe Glu Arg Leu Arg Ala Lys Leu Thr Ser

20 25 30

<210> 254

<211> 24

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (24)..(24)

<223> C-terminal amidation

<400> 254

Lys Lys Ala Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe

1 5 10 15

Glu Arg Leu Arg Ala Lys Lys Lys

20

<210> 255

<211> 24

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (24)..(24)

<223> C-terminal amidation

<400> 255

Lys Lys Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg

1 5 10 15

Leu Arg Ala Lys Leu Thr Lys Lys

20

<210> 256

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 256

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 257

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 257

Tyr Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 258

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 258

Phe Gln Ser Lys Lys Asn Val Phe Val Ala Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 259

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 259

Phe Gln Ser Lys Lys Asn Val Phe Val Leu Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 260

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 260

Phe Gln Ser Lys Lys Asn Val Phe Val Gln Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 261

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 261

Phe Gln Ser Lys Lys Asn Val Phe Val Tyr Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 262

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 262

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Asp Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 263

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<400> 263

Phe Gln Ser Lys Asn Asn Val Phe Val Ala Gly Tyr Phe Asp Arg Leu
1 5 10 15

Arg Ala Lys Leu
20

<210> 264

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 264

Phe Gln Ser Lys Lys Asn Gln Phe Val Phe Gly Tyr Phe Glu Arg Leu
1 5 10 15

Arg Ala Lys Leu
20

<210> 265

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 265

Phe Gln Ser Pro Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 266

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 266

Phe Gln Ser Lys Lys Asn Val Phe Val Gly Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 267

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 267

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Leu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 268

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (1)..(1)

<223> Xaa is 13-Amino-4,7,10-trioxa-tridecayl)-succinamic acid

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 268

Xaa Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg

1 5 10 15

Leu Arg Ala Lys Leu

20

<210> 269

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (11)..(11)

<223> N-methyl-Gly

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 269

Phe Gln Ser Lys Gly Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 270

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (5)..(5)

<223> beta-Ala

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 270

Phe Gln Ser Lys Ala Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 271

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (6)..(6)

<223> beta-Homoasparagin

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 271

Phe Gln Ser Lys Gly Asp Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 272

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (14)..(14)

<223> beta-Homoaspartic acid

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 272

Phe Gln Ser Lys Gly Asn Val Phe Val Phe Gly Tyr Phe Asp Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 273

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (17)..(17)

<223> Xaa is (S)-Citrullin

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 273

Phe Gln Ser Lys Gly Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Xaa Ala Lys Leu

20

<210> 274

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 274

Phe Gln Ser Gly Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 275

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 275

Phe Gln Ser Lys Lys Gly Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 276

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 276

Phe Gln Lys Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 277

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 277

Phe Gln Ser Lys Lys Lys Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 278

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 278

Phe Gln Ser Lys Lys Asn Lys Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 279

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 279

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Lys Ala Lys Leu

20

<210> 280

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 280

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Lys Lys Leu

20

<210> 281

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 281

Phe Gln Asp Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 282

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 282

Phe Gln Ser Lys Lys Asp Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 283

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<400> 283

Phe Gln Ser Lys Gly Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 284

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 284

Phe Gln Ser Lys Gly Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 285

<211> 22

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<400> 285

Gly Ser Phe Gln Ser Lys Lys Asn Val Phe Val Asp Gly Tyr Phe Glu

1 5 10 15

Arg Leu Arg Ala Lys Leu

20

<210> 286

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 286

Phe Gln Ser Lys Gly Asn Leu Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 287

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222

> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 287

Phe Gln Ser Lys Gly Asn Val Phe Ile Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 288

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 288

Phe Gln Ser Lys Lys Ala Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 289

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 289

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Ala Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 290

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (4)..(4)

<223> D-Lys

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 290

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 291

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (9)..(9)

<223> D-Phe

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 291

Phe Gln Ser Lys Lys Asn Val Phe Phe Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 292

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 292

Phe Gln Ser Lys Gly Asn Val Phe Val His Gly Tyr Phe Asp Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 293

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (17)..(17)

<223> omega-methyl-Arg

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 293

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 294

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 294

Phe Gln Ala Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 295

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 295

Phe Gln Ser Ala Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 296

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 296

Phe Gln Ser Asp Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 297

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 297

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Asp Lys Leu

20

<210> 298

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 298

Phe Gln Glu Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 299

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 299

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Glu Lys Leu

20

<210> 300

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (5)..(5)

<223> D-Ala

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 300

Phe Gln Ser Lys Ala Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 301

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 301

Phe Gln Ser Phe Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 302

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (5)..(5)

<223> D-Ala

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 302

Phe Gln Ser Lys Ala Ala Val Phe Val Ala Gly Tyr Phe Ala Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 303

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 303

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Phe Ala Lys Leu

20

<210> 304

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 304

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Phe Lys Leu

20

<210> 305

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 305

Phe Gln Ser Lys Ala Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 306

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 306

Phe Gln His Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 307

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 307

Phe Gln Ser His Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 308

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 308

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe His Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 309

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 309

Ile Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 310

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 310

Phe Gln Ile Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 311

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 311

Phe Gln Ser Lys Gly Ile Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 312

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 312

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Ile Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 313

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 313

Phe Gln Ser Lys Gly Leu Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 314

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 314

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Leu Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 315

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 315

Phe Gln Asn Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 316

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 316

Phe Gln Ser Asn Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 317

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 317

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Asn Ala Lys Leu

20

<210> 318

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 318

Phe Gln Ser Gln Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 319

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 319

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Gln Lys Leu

20

<210> 320

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 320

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Arg Leu

20

<210> 321

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 321

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Arg

20

<210> 322

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<400> 322

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Ser Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 323

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<400> 323

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Thr Ala Lys Leu

20

<210> 324

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<400> 324

Val Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 325

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 325

Phe Gln Val Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 326

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 326

Phe Gln Ser Val Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 327

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 327

Phe Gln Ser Lys Gly Val Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 328

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 328

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Val Lys Leu

20

<210> 329

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 329

Trp Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 330

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 330

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Trp Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 331

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 331

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Trp Lys Leu

20

<210> 332

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 332

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Trp

20

<210> 333

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 333

Phe Gln Ser Lys Gly Tyr Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 334

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 334

Phe Gln Ser Lys Gly Asn Tyr Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 335

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 335

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Tyr Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 336

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 336

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Tyr Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 337

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 337

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Tyr Ala Lys Leu

20

<210> 338

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (5)..(5)

<223> Xaa is 2-Amino-isobutyric acid

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 338

Phe Gln Ser Lys Xaa Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 339

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 339

Phe Gln Ser Lys Ala Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 340

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 340

Phe Gln Ser Lys His Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 341

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 341

Phe Gln Ser Lys Leu Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 342

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES
<222> (1)..(1)
<223> N-terminal acetylation
<220><221> MOD_RES
<222> (20)..(20)
<223> C-terminal amidation
<400> 342
Phe Gln Ser Lys Arg Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu
1 5 10 15
Arg Ala Lys Leu
20
<210> 343
<211> 20
<212> PRT
<213> Artificial Sequence
<220><223> Synthetic peptide
<220><221> MOD_RES
<222> (1)..(1)
<223> N-terminal acetylation
<220><221> MOD_RES
<222> (20)..(20)
<223> C-terminal amidation
<400> 343
Phe Gln Ser Lys Tyr Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu
1 5 10 15
Arg Ala Lys Leu
20
<210> 344
<211> 20
<212> PRT
<213> Artificial Sequence
<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 344

Phe Gln Ser Lys Gly Asn Val Phe Val Gly Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 345

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 345

Phe Gln Ser Lys Gly Asn Val Phe Val Trp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 346

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 346

Phe Gln Ser Lys Gly Asn Val Phe Val Tyr Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 347

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 347

Phe Gln Ser Lys Ala Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ala Ala Lys Leu

20

<210> 348

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 348

Phe Gln Ser Arg Glu Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ala Ala Lys Leu

20

<210> 349

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 349

Phe Gln Ser Lys Asp Asn Val Phe Val His Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ala Ala Lys Leu

20

<210> 350

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 350

Phe Gln Ser Lys Glu Arg Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ala Ala Lys Leu

20

<210> 351

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 351

Phe Gln Ser Lys Gln Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ala Ile Lys Leu

20

<210> 352

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 352

Phe Gln Ser Lys Tyr Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ala Val Lys Leu

20

<210> 353

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 353

Phe Gln Ser Arg Asn Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ala Ala Lys Leu

20

<210> 354

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 354

Phe Gln Ser Arg Gln Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ala Ala Lys Leu

20

<210> 355

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 355

Phe Gln Ser Lys Gln Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ala Ala Lys Leu

20

<210> 356

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 356

Phe Gln Ser Ser Lys Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ala Ala Lys Leu

20

<210> 357

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 357

Phe Gln Ser Lys Glu Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ala Ala Lys Leu

20

<210> 358

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 358

Phe Gln Ser Lys Asp Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ala Ala Lys Leu

20

<210> 359

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 359

Phe Gln Ser Lys Asp Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ala Ala Arg Leu

20

<210> 360

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 360

Phe Gln Ser Lys His Asn Val Tyr Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ala Ala Lys Leu

20

<210> 361

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 361

Phe Gln Ser Lys Tyr Asn Ile Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ala Ala Lys Leu

20

<210> 362

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 362

Phe Gln Ser Lys Asn Asp Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ala Ala Lys Leu

20

<210> 363

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 363

Phe Gln Ser Gly Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ala Ala Lys Leu

20

<210> 364

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 364

Phe Gln Ser Pro Lys Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ala Ala Lys Leu

20

<210> 365

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 365

Phe Gln Ser Pro Lys Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 366

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 366

Phe Gln Ser Arg Lys Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 367

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 367

Phe Gln Ser Lys Lys Arg Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 368

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 368

Phe Gln Ser Ile Lys Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 369

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 369

Cys Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 370

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 370

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Cys Lys Leu

20

<210> 371

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 371

Phe Gln Ser Lys Phe Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Cys Ala Lys Leu

20

<210> 372

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 372

Phe Gln Ser Lys Tyr Asn Val Phe Val Asp Gly Tyr His Glu Arg Leu

1 5 10 15

Cys Ala Lys Leu

20

<210> 373

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 373

Phe Gln Ser Ser His Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Cys Ala Lys Leu

20

<210> 374

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 374

Phe Gln Ser Arg Glu Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Cys Ala Lys Leu

20

<210> 375

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 375

Phe Gln Ser Cys Lys Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 376

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 376

Phe Gln Asp Pro Lys Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Cys Ala Lys Leu

20

<210> 377

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 377

Phe Gln Ser Lys Thr Asn Ile Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Cys Ala Lys Leu

20

<210> 378

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 378

Phe Gln Ser His Tyr Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Cys Ala Lys Leu

20

<210> 379

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 379

Phe Gln Ser Arg Gln Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Cys Ala Lys Leu

20

<210> 380

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 380

Phe Gln Ser Ser Lys Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Cys Ala Lys Leu

20

<210> 381

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 381

Phe Gln Ser His His Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Cys Ala Lys Leu

20

<210> 382

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 382

Phe Gln Thr Lys His Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Cys Ala Lys Leu

20

<210> 383

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 383

Phe Gln Ser Lys Ala Asn Val His Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Cys Ala Lys Leu

20

<210> 384

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 384

Phe Gln Ser Lys His Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Cys Arg Lys Leu

20

<210> 385

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 385

Phe Gln Ser Lys Ser Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Cys Ala Lys Leu

20

<210> 386

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 386

Phe Gln Ser His Lys Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Cys Ala Lys Leu

20

<210> 387

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 387

Phe Gln Ser Lys Asp Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Cys Ala Lys Phe

20

<210> 388

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 388

Phe Gln Ser Lys Met Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Cys Ala Lys Leu

20

<210> 389

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 389

Phe Gln Ser Ala Lys Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Cys Ala Lys Leu

20

<210> 390

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 390

Phe Gln Ser Lys His Val Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Cys Ala Lys Leu

20

<210> 391

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 391

Phe Gln Ser Lys Asp Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Cys Ala Arg Leu

20

<210> 392

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 392

Phe Gln Ser Lys Lys His Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Cys Ala Lys Leu

20

<210> 393

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 393

Phe Gln Ser Asn Lys Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Cys Ala Lys Leu

20

<210> 394

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 394

Phe Gln Ser Glu Lys Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Cys Ala Lys Leu

20

<210> 395

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 395

Phe Gln Ser Lys Lys Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Cys Phe Lys Leu

20

<210> 396

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 396

Phe Gln Ser Lys Gln Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ser Ala Lys Leu

20

<210> 397

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 397

Phe Gln Ser Lys Lys Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ser Ala Lys Leu

20

<210> 398

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 398

Phe Gln Ser Lys Asp Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ser Ala Lys Leu

20

<210> 399

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 399

Phe Gln Ser Lys His Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ser Ala Lys Leu

20

<210> 400

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (17)..(17)

<223> Xaa is 2-Amino-isobutyric acid

<220><221> MOD_RES

<222> (20)..(20)

<223> Xaa is 2-Amino-isobutyric acid

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400

> 400

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Xaa Ala Lys Xaa

20

<210> 401

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (10)..(21)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (17)..(17)

<223> Xaa is 2-Amino-isobutyric acid

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 401

Phe Gln Ser Lys Gly Asn Val Phe Val Cys Gly Tyr Phe Glu Arg Leu

1 5 10 15

Xaa Ala Lys Leu Cys

20

<210> 402

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (1)..(17)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 402

Cys Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg

1 5 10 15

Leu Cys Ala Lys Leu

20

<210> 403

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (1)..(11)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (18)..(18)

<223> Xaa is 2-Amino-isobutyric acid

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 403

Cys Phe Gln Ser Lys Gly Asn Val Phe Val Cys Gly Tyr Phe Glu Arg

1 5 10 15

Leu Xaa Ala Lys Leu

20

<210> 404

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> DISULFID

<222> (1)..(7)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (18)..(18)

<223> Xaa is 2-Amino-isobutyric acid

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 404

Cys Phe Gln Ser Lys Gly Cys Val Phe Val Glu Gly Tyr Phe Glu Arg

1 5 10 15

Leu Xaa Ala Lys Leu

20

<210> 405

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 405

Phe Gln Ser Lys Tyr Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Phe Ala Lys Leu

20

<210> 406

<211> 22

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (22)..(22)

<223> C-terminal amidation

<400> 406

Lys Lys Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg

1 5 10 15

Leu Arg Ala Lys Lys Lys

20

<210> 407

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 407

Phe Gln Asn Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 408

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 408

Phe Gln Ser Lys Lys Asn Val Phe Ala Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 409

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 409

Phe Gln Ser Lys Lys Asn Val Phe Ser Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 410

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 410

Phe Gln Ser Lys Lys Asn Val Phe Thr Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 411

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 411

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Lys Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 412

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 412

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Tyr Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 413

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal Carboxyfluorescein

<220><221> MOD_RES

<222> (1)..(1)

<223> Xaa is (13-Amino-4,7,10-trioxa-tridecayl)-succinamic acid

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 413

Xaa Ala Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu

1 5 10 15

Arg Leu Arg Ala Lys

20

<210> 414

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 414

Phe Gln Ser Lys Lys Asn Ala Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 415

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 415

Phe Gln Ser Lys Lys Asn Pro Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 416

<211> 20

<212> PRT

<213> Artificial Sequence

<

220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 416

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Val Leu

20

<210> 417

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (7)..(7)

<223> (S)-N-methyl-Val

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 417

Phe Gln Ser Lys Gly Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 418

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (10)..(10)

<223> (S)-N-methyl-Phe

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 418

Phe Gln Ser Lys Gly Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 419

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> (S)-N-methyl-Leu

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 419

Phe Gln Ser Lys Gly Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu
1 5 10 15

Arg Ala Lys Leu
20

<210> 420

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> beta-Homophenylalanine

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 420

Phe Gln Ser Lys Gly Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 421

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (3)..(3)

<223> beta-Homoserine

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 421

Phe Gln Ser Lys Gly Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 422

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (4)..(4)

<223> beta-Homolysine

<220><221> MOD_RES

<222> (20)..(20)

<223

> C-terminal amidation

<400> 422

Phe Gln Ser Lys Gly Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 423

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (19)..(19)

<223> beta-Ala

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<

400> 423

Phe Gln Ser Lys Gly Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Ala Lys Leu

20

<210> 424

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (19)..(19)

<223> beta-Homolysine

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 424

Phe Gln Ser Lys Gly Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 425

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (17)..(17)

<223> Xaa is Norleucine

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 425

Phe Gln Ser Lys Gly Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Xaa Ala Lys Leu

20

<210> 426

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 426

Gly Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 427

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 427

Phe Gly Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 428

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 428

Phe Gln Gly Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 429

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 429

Phe Gln Ser Lys Lys Asn Gly Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 430

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 430

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Gly Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 431

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 431

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Gly Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 432

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 432

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Gly Lys Leu

20

<210> 433

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 433

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Gly

20

<210> 434

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 434

Lys Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 435

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 435

Phe Lys Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 436

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 436

Phe Gln Ser Lys Lys Asn Val Lys Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 437

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 437

Phe Gln Ser Lys Lys Asn Val Phe Lys Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 438

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 438

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Lys Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 439

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 439

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Lys Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 440

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 440

Phe Gln Ser Lys Lys Asn Phe Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 441

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 441

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Phe Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 442

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 442

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Phe

20

<210> 443

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 443

Asp Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 444

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 444

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Asp Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 445

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 445

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Asp Lys Leu

20

<210> 446

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 446

Phe Gln Ser Lys Lys Asn Leu Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 447

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 447

Phe Gln Ala Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 448

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 448

Phe Gln Ser Ala Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 449

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 449

Phe Gln Ser Lys Ala Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 450

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 450

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ala Ala Lys Leu

20

<210> 451

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 451

Phe Gln Pro Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 452

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 452

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Pro Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 453

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 453

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Pro

1 5 10 15

Arg Ala Lys Leu

20

<210> 454

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 454

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Pro

20

<210> 455

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 455

Phe Gln Ser Ser Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 456

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 456

Phe Gln Ser Lys Lys Ser Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 457

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 457

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Ser Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 458

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 458

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ser Lys Leu

20

<210> 459

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 459

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Ser Leu

20

<210> 460

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 460

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Leu Leu

20

<210> 461

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (10)..(10)

<223> D-Phe

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 461

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 462

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (12)..(12)

<223> D-Tyr

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 462

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 463

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (14)..(14)

<223> D-Glu

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 463

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 464

<211> 20

<212>

PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (15)..(15)

<223> D-Arg

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 464

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 465

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (17)..(17)

<223> D-Arg

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 465

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 466

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (1)..(1)

<223> D-Phe

<220><221> MOD_RES

<222> (2)..(2)

<223> D-Gln

<220><221> MOD_RES

<222> (3)..(3)

<223> D-Ser

<220><221> MOD_RES

<222> (4)..(4)

<223> D-Lys

<220><221> MOD_RES

<222> (5)..(5)

<223> D-Lys

<220><221> MOD_RES

<222> (6)..(6)

<223> D-Asn

<220><221> MOD_RES

<222> (7)..(7)

<223> D-Val

<220><221> MOD_RES

<222> (8)..(8)

<223> D-Phe

<

220><221> MOD_RES

<222> (9)..(9)

<223> D-Val

<220><221> MOD_RES

<222> (10)..(10)

<223> D-Phe

<220><221> MOD_RES

<222> (11)..(11)

<223> D-Gly

<220><221> MOD_RES

<222> (12)..(12)

<223> D-Tyr

<220><221> MOD_RES

<222> (13)..(13)

<223> D-Phe

<220><221> MOD_RES

<222> (14)..(14)

<223> D-Glu

<220><221> MOD_RES

<222> (15)..(15)

<223> D-Arg

<220><221> MOD_RES

<222> (16)..(16)

<223> D-Leu

<220><221> MOD_RES

<222> (17)..(17)

<223> D-Arg

<220

><221> MOD_RES

<222> (18)..(18)

<223> D-Ala

<220><221> MOD_RES

<222> (19)..(19)

<223> D-Lys

<220><221> MOD_RES

<222> (20)..(20)

<223> D-Leu

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 466

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 467

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES
<222> (1)..(1)
<223> N-terminal acetylation
<220><221> MOD_RES
<222> (1)..(1)
<223> D-Leu
<220><221> MOD_RES
<222> (2)..(2)
<223> D-Lys
<220><221> MOD_RES
<222> (3)..(3)
<223> D-Ala
<220><221> MOD_RES
<222> (4)..(4)
<223> D-Arg
<220><221> MOD_RES
<222> (5)..(5)
<223> D-Leu
<220><221> MOD_RES
<222> (6)..(6)
<223> D-Arg
<220><221> MOD_RES
<222> (7)..(7)
<223> D-Glu
<220><221> MOD_RES
<222> (8)..(8)
<223> D-Phe
<
220><221> MOD_RES
<222> (9)..(9)
<223> D-Tyr
<220><221> MOD_RES
<222> (10)..(10)

<223> D-Gly

<220><221> MOD_RES

<222> (11)..(11)

<223> D-Phe

<220><221> MOD_RES

<222> (12)..(12)

<223> D-Val

<220><221> MOD_RES

<222> (13)..(13)

<223> D-Phe

<220><221> MOD_RES

<222> (14)..(14)

<223> D-Val

<220><221> MOD_RES

<222> (15)..(15)

<223> D-Asn

<220><221> MOD_RES

<222> (16)..(16)

<223> D-Lys

<220><221> MOD_RES

<222> (17)..(17)

<223> D-Lys

<220

><221> MOD_RES

<222> (18)..(18)

<223> D-Ser

<220><221> MOD_RES

<222> (19)..(19)

<223> D-Gln

<220><221> MOD_RES

<222> (20)..(20)

<223> D-Phe

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 467

Leu Lys Ala Arg Leu Arg Glu Phe Tyr Gly Phe Val Phe Val Asn Lys

1 5 10 15

Lys Ser Gln Phe

20

<210> 468

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (15)..(15)

<223> omega-methyl-Arg

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 468

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 469

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 469

Ala Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 470

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 470

Phe Ala Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 471

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 471

Phe Gln Ser Lys Gly Asn Ala Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 472

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 472

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Ala Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 473

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 473

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Ala Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 474

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 474

Phe Gln Asp Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 475

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 475

Phe Gln Ser Lys Gly Asp Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 476

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 476

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Asp Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 477

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 477

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Asp Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 478

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 478

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Asp Ala Lys Leu

20

<210> 479

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 479

Glu Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 480

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 480

Phe Gln Ser Lys Gly Glu Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 481

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 481

Phe Gln Ser Lys Gly Asn Glu Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 482

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 482

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Glu Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 483

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 483

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Glu Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 484

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 484

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Glu Ala Lys Leu

20

<210> 485

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 485

Phe Phe Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 486

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 486

Phe Gln Phe Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 487

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 487

Phe Gln Ser Lys Gly Phe Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 488

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 488

Phe Gln Ser Lys Gly Asn Phe Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 489

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 489

Phe Gln Ser Lys Gly Asn Val Phe Phe Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 490

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (5)..(5)

<223> D-Ala

<220><221> MOD_RES

<222> (17)..(17)

<223> Xaa is (S)-Norleucine

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 490

Phe Gln Ser Lys Ala Ala Val Phe Val Ala Gly Tyr Phe Ala Arg Leu

1 5 10 15

Xaa Ala Lys Leu

20

<210> 491

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 491

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Phe Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 492

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 492

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Phe Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 493

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 493

Phe Gly Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 494

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 494

Phe Gln Gly Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 495

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 495

Phe Gln Ser Gly Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 496

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 496

Phe Gln Ser Lys Gly Gly Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 497

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 497

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Gly Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 498

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 498

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Gly Arg Leu
1 5 10 15

Arg Ala Lys Leu
20

<210> 499

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 499

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Gly Leu
1 5 10 15

Arg Ala Lys Leu
20

<210> 500

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 500

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Gly Ala Lys Leu

20

<210> 501

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 501

His Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 502

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 502

Phe Gln Ser Lys Gly His Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 503

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 503

Phe Gln Ser Lys Gly Asn His Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 504

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 504

Phe Gln Ser Lys Gly Asn Val Phe Val Asp His Tyr Phe Glu Arg Leu
1 5 10 15

Arg Ala Lys Leu
20

<210> 505

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 505

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr His Glu Arg Leu
1 5 10 15

Arg Ala Lys Leu
20

<210> 506

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 506

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg His Lys Leu

20

<210> 507

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 507

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys His

20

<210> 508

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 508

Phe Ile Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 509

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 509

Phe Gln Ser Lys Gly Asn Val Phe Ile Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 510

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 510

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Ile Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 511

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 511

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ile Lys Leu

20

<210> 512

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 512

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Ile

20

<210> 513

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 513

Lys Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 514

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 514

Phe Gln Lys Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 515

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 515

Phe Gln Ser Lys Gly Asn Val Phe Lys Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 516

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 516

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Lys Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 517

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 517

Leu Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 518

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 518

Phe Gln Leu Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 519

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 519

Phe Gln Ser Lys Gly Asn Leu Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 520

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 520

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Leu Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 521

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 521

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Leu Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 522

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 522

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Leu Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 523

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 523

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Met Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 524

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 524

Asn Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 525

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 525

Phe Asn Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 526

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 526

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Asn Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 527

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 527

Phe Gln Ser Lys Gly Asn Pro Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 528

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 528

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Pro Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 529

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 529

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Pro Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 530

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 530

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Pro Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 531

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 531

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Pro Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 532

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 532

Gln Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 533

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 533

Phe Gln Ser Lys Gly Asn Gln Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 534

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 534

Phe Gln Ser Lys Gly Asn Val Phe Gln Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 535

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 535

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gln Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 536

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 536

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Gln Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 537

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 537

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Gln Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 538

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 538

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Gln Ala Lys Leu

20

<210> 539

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 539

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Gln

20

<210> 540

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 540

Arg Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 541

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 541

Phe Arg Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 542

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 542

Phe Gln Ser Lys Gly Asn Arg Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 543

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 543

Phe Gln Ser Lys Gly Asn Val Arg Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 544

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 544

Phe Gln Ser Lys Gly Asn Val Phe Arg Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 545

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 545

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Arg Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 546

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 546

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Arg

1 5 10 15

Arg Ala Lys Leu

20

<210> 547

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 547

Phe Ser Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 548

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 548

Phe Gln Ser Ser Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 549

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 549

Phe Gln Ser Lys Gly Asn Ser Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 550

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 550

Phe Gln Ser Lys Gly Asn Val Phe Ser Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 551

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 551

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Ser Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 552

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 552

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Ser Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 553

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 553

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ser Ala Lys Leu

20

<210> 554

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 554

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ser Lys Leu

20

<210> 555

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 555

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Ser

20

<210> 556

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 556

Thr Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 557

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 557

Phe Gln Thr Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 558

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 558

Phe Gln Ser Thr Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 559

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 559

Phe Gln Ser Lys Gly Thr Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 560

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 560

Phe Gln Ser Lys Gly Asn Thr Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 561

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 561

Phe Gln Ser Lys Gly Asn Val Phe Thr Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 562

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 562

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Thr Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 563

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 563

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Thr Lys Leu

20

<210> 564

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 564

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Thr

20

<210> 565

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (5)..(5)

<223> D-Ala

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 565

Phe Gln Ser Lys Ala Ala Val Phe Val Phe Gly Tyr Phe Ala Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 566

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 566

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Val Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 567

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 567

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Val

1 5 10 15

Arg Ala Lys Leu

20

<210> 568

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 568

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Val

20

<210> 569

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 569

Phe Gln Trp Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 570

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 570

Phe Gln Ser Lys Gly Trp Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 571

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 571

Phe Gln Ser Lys Gly Asn Trp Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 572

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 572

Phe Gln Ser Lys Gly Asn Val Trp Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 573

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 573

Phe Gln Ser Lys Gly Asn Val Phe Trp Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 574

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 574

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Trp Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 575

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES
<222> (1)..(1)
<223> N-terminal acetylation
<220><221> MOD_RES
<222> (20)..(20)
<223> C-terminal amidation
<400> 575
Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Trp
1 5 10 15
Arg Ala Lys Leu
20
<210> 576
<211> 20
<212> PRT
<213> Artificial Sequence
<220><223> Synthetic peptide
<220><221> MOD_RES
<222> (1)..(1)
<223> N-terminal acetylation
<220><221> MOD_RES
<222> (20)..(20)
<223> C-terminal amidation
<400> 576
Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu
1 5 10 15
Trp Ala Lys Leu
20
<210> 577
<211> 20
<212> PRT
<213> Artificial Sequence
<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 577

Phe Gln Tyr Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 578

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 578

Phe Gln Ser Lys Gly Asn Val Phe Tyr Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 579

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 579

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Tyr Lys Leu

20

<210> 580

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 580

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Tyr

20

<210> 581

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 581

Phe Gln Ser Lys Glu Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 582

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 582

Phe Gln Ser Lys Ile Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 583

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 583

Phe Gln Ser Lys Pro Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 584

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 584

Phe Gln Ser Lys Ser Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 585

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 585

Phe Gln Ser Lys Thr Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 586

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 586

Phe Gln Ser Lys Val Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 587

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 587

Phe Gln Ser Lys Trp Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 588

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 588

Phe Gln Ser Lys Gly Asn Val Phe Val Ile Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 589

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 589

Phe Gln Ser Lys Gly Asn Val Phe Val Leu Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 590

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 590

Phe Gln Ser Lys Gly Asn Val Phe Val Gln Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 591

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 591

Phe Gln Ser Lys Phe Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ala Ala Lys Leu

20

<210> 592

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 592

Phe Gln Ser Lys Tyr Asn Val Phe Val Asp Gly Tyr His Glu Arg Leu

1 5 10 15

Ala Ala Lys Leu

20

<210> 593

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 593

Phe Gln Ser Ser His Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ala Ala Lys Leu

20

<210> 594

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 594

Phe Gln Ser Ala Lys Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 595

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 595

Phe Gln Ser Phe Lys Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ala Ala Lys Leu

20

<210> 596

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 596

Phe Gln Asp Pro Lys Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ala Ala Lys Leu

20

<210> 597

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 597

Phe Gln Ser Lys Val Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ala Ala Lys Leu

20

<210> 598

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 598

Phe Gln Ser Ile Lys Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ala Ala Lys Leu

20

<210> 599

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 599

Phe Gln Ser Lys Thr Asn Ile Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ala Ala Lys Leu

20

<210> 600

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 600

Phe Gln Ser His Tyr Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ala Ala Lys Leu

20

<210> 601

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 601

Phe Gln Ser Lys Glu Asn Val Phe Val Asp Gly Tyr Phe Asp Arg Leu

1 5 10 15

Ala Ala Lys Leu

20

<210> 602

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 602

Phe Gln Ser His His Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ala Ala Lys Leu

20

<210> 603

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 603

Phe Gln Ser Tyr Lys Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ala Ala Lys Leu

20

<210> 604

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 604

Phe Gln Ser Lys His Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ala Phe Lys Leu

20

<210> 605

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 605

Phe Gln Ser Phe Lys His Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ala Ala Lys Leu

20

<210> 606

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 606

Phe Gln Ser Lys Ala Asn Val His Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ala Ala Lys Leu

20

<210> 607

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 607

Phe Gln Ser Lys Ser Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ala Ala Lys Leu

20

<210> 608

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 608

Phe Gln Ser His Lys Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ala Ala Lys Leu

20

<210> 609

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 609

Phe Gln Ser Lys Asp Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ala Ala Lys Phe

20

<210> 610

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 610

Phe Gln Ser Lys Met Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ala Ala Lys Leu

20

<210> 611

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 611

Phe Gln Ser Ala Tyr Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ala Ala Lys Leu

20

<210> 612

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 612

Phe Gln Ser Lys Gly Asn Trp Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ala Ala Lys Leu

20

<210> 613

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 613

Phe Gln Ser Ala Lys Asn Val Phe Val Asp Gly Tyr Phe Val Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 614

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 614

Phe Gln Ser Lys Thr Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ala Ala Lys Leu

20

<210> 615

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 615

Phe Gln Ser Lys His Val Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ala Ala Lys Leu

20

<210> 616

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 616

Phe Gln Ser Lys Lys His Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ala Ala Lys Leu

20

<210> 617

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 617

Phe Gln Ser Asp Lys Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ala Ala Lys Leu

20

<210> 618

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 618

Phe Gln Ser Asn Lys Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ala Ala Lys Leu

20

<210> 619

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 619

Phe Gln Ser His Lys Asn Val Phe Val Glu Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ala Ala Lys Leu

20

<210> 620

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 620

Phe Gln Ser Tyr Lys Asp Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ala Thr Lys Leu

20

<210> 621

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 621

Phe Gln Ser Lys Asn Asn Phe Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ala Ala Arg Leu

20

<210> 622

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 622

Phe Gln Ser Glu Gln Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ala Ala Lys Leu

20

<210> 623

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 623

Phe Gln Ser Glu His Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ala Ala Lys Leu

20

<210> 624

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 624

Phe Gln Ser Glu Lys Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ala Ala Lys Leu

20

<210> 625

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 625

Phe Gln Ser Lys Lys Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ala Phe Lys Leu

20

<210> 626

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 626

Phe Gln Ser Lys Arg Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ala Ala Lys Leu

20

<210> 627

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 627

Phe Gln Ser Gly Lys Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ala Ala Lys Leu

20

<210> 628

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 628

Phe Gln Ser Tyr Lys Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Phe Ala Lys Leu

20

<210> 629

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 629

Phe Cys Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 630

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 630

Phe Gln Ser Cys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 631

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 631

Phe Gln Ser Lys Gly Asn Cys Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 632

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 632

Phe Gln Ser Lys Gly Asn Val Phe Val Cys Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 633

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 633

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Cys Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 634

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 634

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Cys

1 5 10 15

Arg Ala Lys Leu

20

<210> 635

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 635

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Cys

20

<210> 636

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 636

Phe Gln Ser Phe Lys Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Cys Ala Lys Leu

20

<210> 637

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 637

Phe Gln Ser Lys Val Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Cys Ala Lys Leu

20

<210> 638

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 638

Phe Gln Ser Ile Lys Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Cys Ala Lys Leu

20

<210> 639

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 639

Phe Gln Ser Lys Glu Arg Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Cys Ala Lys Leu

20

<210> 640

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 640

Phe Gln Ser Lys Glu Asn Val Phe Val Asp Gly Tyr Phe Asp Arg Leu

1 5 10 15

Cys Ala Lys Leu

20

<210> 641

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 641

Phe Gln Ser Lys Gln Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Cys Ile Lys Leu

20

<210> 642

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 642

Phe Gln Ser Lys Tyr Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Cys Val Lys Leu

20

<210> 643

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 643

Phe Gln Ser Tyr Lys Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Cys Ala Lys Leu

20

<210> 644

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 644

Phe Gln Ser Lys His Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Cys Phe Lys Leu

20

<210> 645

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 645

Phe Gln Ser Lys Tyr Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Cys Ala Lys Leu

20

<210> 646

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 646

Phe Gln Ser Phe Lys His Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Cys Ala Lys Leu

20

<210> 647

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 647

Leu Gln Ser Lys Thr Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Cys Ala Lys Leu

20

<210> 648

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 648

Phe Gln Ser Lys Cys Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Cys Ala Lys Leu

20

<210> 649

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 649

Phe Gln Ser Lys Phe Asn Val Phe Val Asp Gly Tyr Thr Glu Arg Leu

1 5 10 15

Cys Ala Lys Leu

20

<210> 650

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 650

Phe Gln Ser Val Lys Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Cys Ala Lys Leu

20

<210> 651

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 651

Phe Gln Ser Lys Gly Asn Trp Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Cys Ala Lys Leu

20

<210> 652

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 652

Phe Gln Ser Lys Val Ala Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Cys Ala Lys Leu

20

<210> 653

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 653

Phe Gln Ser Cys Lys Asn Val Phe Val Asp Gly Tyr Phe Val Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 654

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 654

Phe Gln Ser Lys Thr Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Cys Ala Lys Leu

20

<210> 655

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 655

Phe Gln Ser Lys Lys Asp Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Cys Ala Lys Leu

20

<210> 656

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 656

Phe Gln Ser Lys Ser Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Cys Ala Arg Leu

20

<210> 657

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 657

Phe Gln Ser Asp Lys Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Cys Ala Lys Leu

20

<210> 658

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 658

Phe Gln Ser His Lys Asn Val Phe Val Glu Gly Tyr Phe Glu Arg Leu

1 5 10 15

Cys Ala Lys Leu

20

<210> 659

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 659

Phe Gln Ser Lys Pro Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Cys Ala Lys Leu

20

<210> 660

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 660

Phe Gln Ser Tyr Lys Asp Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Cys Thr Lys Leu

20

<210> 661

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 661

Phe Gln Ser Lys Leu Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Cys Ala Lys Leu

20

<210> 662

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 662

Phe Gln Ser Lys Asn Asn Phe Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Cys Ala Arg Leu

20

<210> 663

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 663

Phe Gln Ser Lys Tyr Asn Ile Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Cys Ala Lys Leu

20

<210> 664

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 664

His Gln Gln Phe Lys Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Cys Ala Lys Leu

20

<210> 665

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (3)..(3)

<223> Xaa is 2-Amino-isobutyric acid

<220><221> MOD_RES

<222> (17)..(17)

<223> Xaa is 2-Amino-isobutyric acid

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 665

Phe Gln Xaa Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Xaa Ala Lys Leu

20

<210> 666

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (6)..(6)

<223> Xaa is 2-Amino-isobutyric acid

<220><221> MOD_RES

<222> (17)..(17)

<223> Xaa is 2-Amino-isobutyric acid

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 666

Phe Gln Ser Lys Gly Xaa Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Xaa Ala Lys Leu

20

<210> 667

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (9)..(9)

<223> Xaa is 2-Amino-isobutyric acid

<220><221> MOD_RES

<222> (17)..(17)

<223> Xaa is 2-Amino-isobutyric acid

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 667

Phe Gln Ser Lys Gly Asn Val Phe Xaa Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Xaa Ala Lys Leu

20

<210> 668

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> misc_feature

<222> (10)..(10)

<223> Xaa can be any naturally occurring amino acid

<220><221> MOD_RES

<222> (11)..(11)

<223> Xaa is 2-Amino-isobutyric acid

<220><221> MOD_RES

<222> (17)..(17)

<223> Xaa is 2-Amino-isobutyric acid

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 668

Phe Gln Ser Lys Gly Asn Val Phe Val Xaa Gly Tyr Phe Glu Arg Leu

1 5 10 15

Xaa Ala Lys Leu

20

<210> 669

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (11)..(11)

<223> Xaa is 2-Amino-isobutyric acid

<220>

<221> MOD_RES

<222> (17)..(17)

<223> Xaa is 2-Amino-isobutyric acid

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 669

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Xaa Tyr Phe Glu Arg Leu

1 5 10 15

Xaa Ala Lys Leu

20

<210> 670

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221>

DISULFID

<222> (5)..(17)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 670

Phe Gln Ser Lys Cys Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Cys Ala Lys Leu

20

<210> 671

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221

> DISULFID

<222> (10)..(17)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 671

Phe Gln Ser Lys Gly Asn Val Phe Val Cys Gly Tyr Phe Glu Arg Leu

1 5 10 15

Cys Ala Lys Leu

20

<210> 672

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220>

<221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 672

Phe Gln Ser Lys Lys Asn Asn Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 673

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 673

Phe Gln Ser Lys Lys Asn Val Val Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 674

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 674

Phe Gln Ser Lys Lys Asn Val Phe Gln Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 675

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (3)..(3)

<223> (S)-N-methyl-Ser

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 675

Phe Gln Ser Lys Gly Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 676

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (9)..(9)

<223> (S)-N-methyl-Val

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 676

Phe Gln Ser Lys Gly Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 677

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (13)..(13)

<223> (S)-N-methyl-Phe

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 677

Phe Gln Ser Lys Gly Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 678

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (14)..(14)

<223> (S)-N-methyl-Glu

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 678

Phe Gln Ser Lys Gly Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 679

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (18)..(18)

<223> (S)-N-methyl-Ala

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 679

Phe Gln Ser Lys Gly Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 680

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<

223> N-terminal acetylation

<220><221> MOD_RES

<222> (2)..(2)

<223> beta-Homoglutamine

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 680

Phe Glu Ser Lys Gly Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 681

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (8)..(8)

<223> beta-Homophenylalanine

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 681

Phe Gln Ser Lys Gly Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 682

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (10)..(10)

<223> beta-Homophenylalanine

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 682

Phe Gln Ser Lys Gly Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 683

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (13)..(13)

<223> beta-Homophenylalanine

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 683

Phe Gln Ser Lys Gly Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 684

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (16)..(16)

<223> beta-Homoleucine

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 684

Phe Gln Ser Lys Gly Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 685

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (15)..(15)

<223> Xaa is (S)-Citrullin

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 685

Phe Gln Ser Lys Gly Asn Val Phe Val Phe Gly Tyr Phe Glu Xaa Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 686

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 686

Phe Gln Ser Lys Lys Asn Val Gly Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 687

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 687

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Gly

1 5 10 15

Arg Ala Lys Leu

20

<210> 688

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 688

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Gly Leu

20

<210> 689

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 689

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Lys Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 690

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 690

Phe Gln Ser Lys Phe Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 691

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 691

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Phe Lys Leu

20

<210> 692

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 692

Leu Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 693

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 693

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Leu Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 694

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 694

Phe Gln Ser Lys Gly Asn Val Phe Leu Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 695

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 695

Phe Ala Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 696

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 696

Phe Gln Ser Lys Lys Pro Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 697

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 697

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Ser Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 698

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 698

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Leu Lys Leu

20

<210> 699

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (3)..(3)

<223> D-Ser

<220><221> MOD_RES

<222> (20)..(20)

<223> N-terminal acetylation

<400> 699

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 700

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (13)..(13)

<223> D-Phe

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 700

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 701

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 701

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Gly Lys Leu

20

<210> 702

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 702

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Lys Lys Leu

20

<210> 703

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 703

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Lys

20

<210> 704

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (17)..(17)

<223> Xaa is Norleucine

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 704

Phe Gln Ser Lys Ala Asn Val Phe Val Thr Gly Tyr Phe Glu Arg Leu

1 5 10 15

Xaa Ala Lys Leu

20

<210> 705

<211>

20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 705

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Gly Ala Lys Leu

20

<210> 706

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><

221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 706

Phe Gln Ser Val Lys Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ala Ala Lys Leu

20

<210> 707

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 707

Phe Gln Ser Lys Val Ala Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ala Ala Lys Leu

20

<210> 708

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 708

Phe Gln Ser Lys Glu Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Cys Tyr Lys Leu

20

<210> 709

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 709

Phe Gln Ser Thr Lys Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Cys Ala Lys Leu

20

<210> 710

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (2)..(2)

<223> Xaa is 2-Amino-isobutyric acid

<220><221> MOD_RES

<222> (17)..(17)

<223> Xaa is 2-Amino-isobutyric acid

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 710

Phe Xaa Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Xaa Ala Lys Leu

20

<210> 711

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (7)..(7)

<223> Xaa is 2-Amino-isobutyric acid

<220><221> MOD_RES

<222> (17)..(17)

<223> Xaa is 2-Amino-isobutyric acid

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 711

Phe Gln Ser Lys Gly Asn Xaa Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Xaa Ala Lys Leu

20

<210> 712

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 712

Lys Lys Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu Arg

1 5 10 15

Ala Lys Leu Thr Ser Lys Lys

20

<210> 713

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 713

Phe Ser Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 714

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (12)..(12)

<223> (S)-N-methyl-Tyr

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 714

Phe Gln Ser Lys Gly Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 715

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 715

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Lys

1 5 10 15

Arg Ala Lys Leu

20

<210> 716

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 716

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Asp Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 717

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 717

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Asp Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 718

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 718

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Asp Leu

20

<210> 719

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 719

Phe Gln Ser Lys Lys Asn Val Leu Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 720

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<400> 720

Phe Gln Ser Lys Gly Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 721

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 721

Ala Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 722

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 722

Phe Gln Ser Lys Pro Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 723

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 723

Phe Gln Ser Lys Lys Asn Val Phe Pro Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 724

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 724

Phe Gln Ser Lys Lys Asn Ser Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 725

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 725

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Leu Ala Lys Leu

20

<210> 726

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (1)..(1)

<223> D-Phe

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 726

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 727

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (2)..(2)

<223> D-Gln

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 727

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 728

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (6)..(6)

<223> D-Asn

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 728

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 729

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (7)..(7)

<223> D-Val

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 729

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 730

<211> 20

<212> PRT

<213> Artificial Sequence

<220

><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (8)..(8)

<223> D-Phe

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 730

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 731

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220

><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 731

Phe Gln Ser Lys Gly Asn Val Phe Ala Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 732

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 732

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Ala

20

<210> 733

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 733

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Asn

20

<210> 734

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 734

Ser Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 735

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 735

Phe Gln Ser Lys Lys Asn Val Phe Phe Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 736

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 736

Phe Gln Ser Lys Lys Asp Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ala Ala Lys Leu

20

<210> 737

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 737

Phe Gln Ser Lys Ser Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ala Ala Arg Leu

20

<210> 738

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 738

Phe Gln Ser Thr Lys Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ala Ala Lys Leu

20

<210> 739

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 739

Tyr Gln Ser Lys Gln Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ala Ala Lys Leu

20

<210> 740

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 740

Phe Gln Ser Phe Glu Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

His Ala Lys Leu

20

<210> 741

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (1)..(1)

<223> Xaa is 2-Amino-isobutyric acid

<220><221> MOD_RES

<222> (17)..(17)

<223> Xaa is 2-Amino-isobutyric acid

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 741

Xaa Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Xaa Ala Lys Leu

20

<210> 742

<211> 30

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (30)..(30)

<223> C-terminal amidation

<400> 742

Val Val Glu Lys Leu Thr Phe Val Gln Leu Ser Phe Leu Asn Arg Arg

1 5 10 15

Arg Phe Ser Gln Tyr Ala Gly Phe Lys Gly Ala Gly Lys Val

20 25 30

<210> 743

<211> 30

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (30)..(30)

<223> C-terminal amidation

<400> 743

Arg Val Phe Leu Tyr Phe Ser Gly Lys Ala Gly Gly Leu Val Lys Leu
1 5 10 15

Val Glu Arg Gln Ala Phe Gln Thr Asn Val Ser Lys Phe Arg
20 25 30

<210> 744

<211> 29

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (29)..(29)

<223> C-terminal amidation

<400> 744

Lys Lys Ser Gly Val Gly Arg Leu Gln Val Ala Phe Gln Ser Lys Lys
1 5 10 15

Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu Lys Lys
20 25

<210> 745

<211> 26

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (26)..(26)

<223> C-terminal amidation

<400> 745

Lys Lys Ser Gly Val Gly Arg Leu Gln Val Ala Phe Gln Ser Lys Lys
1 5 10 15

Asn Val Phe Val Phe Gly Tyr Phe Lys Lys
20 25

<210> 746

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 746

Lys Lys Ser Gly Val Gly Arg Leu Gln Val Ala Phe Gln Ser Lys Lys
1 5 10 15

Asn Val Phe Val Phe Lys Lys
20

<210> 747

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 747

Phe Gln Ser Lys Gln Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 748

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 748

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Asn

20

<210> 749

<211> 19

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (19)..(19)

<223> C-terminal amidation

<400> 749

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys

<210> 750

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 750

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Leu Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 751

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (8)..(8)

<223> (S)-methyl-Phe

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 751

Phe Gln Ser Lys Gly Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 752

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<

222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (15)..(15)

<223> (S)-methyl-Arg

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 752

Phe Gln Ser Lys Gly Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 753

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223

> N-terminal acetylation

<220><221> MOD_RES

<222> (16)..(16)

<223> (S)-N-methyl-Leu

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 753

Phe Gln Ser Lys Gly Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 754

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (17)..(17)

<223> (S)-N-methyl-Arg

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 754

Phe Gln Ser Lys Gly Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 755

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (19)..(19)

<223> (S)-N-methyl-Lys

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 755

Phe Gln Ser Lys Gly Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 756

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (7)..(7)

<

223> beta-Leu

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 756

Phe Gln Ser Lys Gly Asn Leu Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 757

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (9)..(9)

<223> beta-Leu

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 757

Phe Gln Ser Lys Gly Asn Val Phe Leu Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 758

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (11)..(11)

<223> beta-Ala

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 758

Phe Gln Ser Lys Gly Asn Val Phe Val Phe Ala Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 759

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (12)..(12)

<223> beta-Tyr

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 759

Phe Gln Ser Lys Gly Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 760

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (15)..(15)

<223> beta-Homoarginine

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 760

Phe Gln Ser Lys Gly Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 761

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (15)..(15)

<223> Xaa is Norleucine

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 761

Phe Gln Ser Lys Gly Asn Val Phe Val Phe Gly Tyr Phe Glu Xaa Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 762

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 762

Phe Gln Ser Lys Lys Asn Val Phe Gly Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 763

<211> 20

<212> PRT

<213> Artificial Sequence

<

220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 763

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Gly Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 764

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 764

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Gly Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 765

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 765

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Lys

20

<210> 766

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 766

Phe Phe Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 767

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 767

Phe Gln Phe Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 768

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 768

Phe Gln Ser Phe Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 769

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 769

Phe Gln Ser Lys Lys Phe Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 770

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 770

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Phe Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 771

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 771

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Phe Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 772

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 772

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Phe Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 773

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 773

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Phe

1 5 10 15

Arg Ala Lys Leu

20

<210> 774

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 774

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Phe Ala Lys Leu

20

<210> 775

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 775

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Phe Leu

20

<210> 776

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 776

Phe Asp Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 777

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 777

Phe Gln Ser Asp Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 778

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 778

Phe Gln Ser Lys Lys Asn Asp Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 779

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 779

Phe Gln Ser Lys Lys Asn Val Asp Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 780

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 780

Phe Gln Ser Lys Lys Asn Val Phe Asp Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 781

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 781

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Asp Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 782

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 782

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Asp

1 5 10 15

Arg Ala Lys Leu

20

<210> 783

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 783

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Asp Ala Lys Leu

20

<210> 784

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 784

Phe Leu Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 785

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 785

Phe Gln Leu Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 786

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 786

Phe Gln Ser Leu Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 787

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 787

Phe Gln Ser Lys Leu Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 788

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 788

Phe Gln Ser Lys Lys Leu Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 789

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 789

Phe Gln Ser Lys Lys Asn Val Phe Leu Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 790

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 790

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Leu Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 791

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 791

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Leu Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 792

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 792

Phe Gln Ser Lys Lys Asn Val Ala Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 793

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 793

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Ala Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 794

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 794

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Ala Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 795

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 795

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Ala Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 796

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 796

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Ala Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 797

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 797

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Ala

1 5 10 15

Arg Ala Lys Leu

20

<210> 798

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 798

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Ala Leu

20

<210> 799

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 799

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Ala

20

<210> 800

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 800

Pro Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 801

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 801

Phe Pro Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 802

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 802

Phe Gln Ser Lys Lys Asn Val Pro Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 803

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 803

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Pro Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 804

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 804

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Pro Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 805

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 805

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Pro Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 806

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 806

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Pro Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 807

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 807

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Pro Ala Lys Leu

20

<210> 808

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 808

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Pro Lys Leu

20

<210> 809

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 809

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Pro Leu

20

<210> 810

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 810

Ser Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 811

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 811

Phe Gln Ser Lys Ser Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 812

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 812

Phe Gln Ser Lys Lys Asn Val Ser Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 813

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 813

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Ser Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 814

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 814

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Ser Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 815

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 815

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Ser Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 816

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 816

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Ser

1 5 10 15

Arg Ala Lys Leu

20

<210> 817

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 817

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ser Ala Lys Leu

20

<210> 818

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 818

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Ser

20

<210> 819

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (16)..(16)

<223> D-Leu

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 819

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 820

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (18)..(18)

<223> D-Ala

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 820

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 821

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (19)..(19)

<223> D-Lys

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 821

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 822

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> D-Leu

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 822

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 823

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (15)..(15)

<223> omega-methyl-Arg

<220><221> MOD_RES

<222> (17)..(17)

<223> omega-methyl-Arg

<220><221> MOD_RES

<

222> (20)..(20)

<223> C-terminal amidation

<400> 823

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 824

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 824

Phe Gln Ser Lys Gly Asn Val Ala Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 825

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 825

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Ala Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 826

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 826

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Ala Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 827

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 827

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Ala

1 5 10 15

Arg Ala Lys Leu

20

<210> 828

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 828

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Ala Leu

20

<210> 829

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 829

Asp Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 830

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 830

Phe Asp Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 831

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 831

Phe Gln Ser Lys Gly Asn Asp Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 832

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 832

Phe Gln Ser Lys Gly Asn Val Asp Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 833

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 833

Phe Gln Ser Lys Gly Asn Val Phe Asp Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 834

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 834

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Asp Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 835

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 835

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Asp Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 836

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 836

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Asp

1 5 10 15

Arg Ala Lys Leu

20

<210> 837

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 837

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Asp Leu

20

<210> 838

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 838

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Asp

20

<210> 839

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 839

Phe Glu Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 840

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 840

Phe Gln Ser Lys Gly Asn Val Glu Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 841

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 841

Phe Gln Ser Lys Gly Asn Val Phe Glu Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 842

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 842

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Glu Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 843

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 843

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Glu Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 844

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 844

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Glu

1 5 10 15

Arg Ala Lys Leu

20

<210> 845

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 845

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Glu Leu

20

<210> 846

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 846

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Glu

20

<210> 847

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 847

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Phe Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 848

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 848

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Phe Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 849

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 849

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Phe

1 5 10 15

Arg Ala Lys Leu

20

<210> 850

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 850

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Phe Leu

20

<210> 851

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 851

Gly Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 852

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 852

Phe Gln Ser Lys Gly Asn Gly Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 853

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 853

Phe Gln Ser Lys Gly Asn Val Gly Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 854

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 854

Phe Gln Ser Lys Gly Asn Val Phe Gly Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 855

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 855

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Gly Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 856

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 856

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Gly

1 5 10 15

Arg Ala Lys Leu

20

<210> 857

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 857

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Gly Leu

20

<210> 858

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 858

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Gly

20

<210> 859

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 859

Phe His Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 860

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 860

Phe Gln Ser Lys Gly Asn Val Phe His Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 861

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 861

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly His Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 862

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 862

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu His Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 863

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 863

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg His

1 5 10 15

Arg Ala Lys Leu

20

<210> 864

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 864

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala His Leu

20

<210> 865

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 865

Phe Gln Ser Lys Gly Asn Val Ile Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 866

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 866

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Ile Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 867

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 867

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Ile Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 868

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 868

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Ile Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 869

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 869

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Ile

1 5 10 15

Arg Ala Lys Leu

20

<210> 870

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 870

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Ile Leu

20

<210> 871

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 871

Phe Lys Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 872

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 872

Phe Gln Ser Lys Gly Asn Lys Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 873

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 873

Phe Gln Ser Lys Gly Asn Val Lys Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 874

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 874

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Lys Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 875

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 875

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Lys Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 876

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 876

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Lys Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 877

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 877

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Lys

1 5 10 15

Arg Ala Lys Leu

20

<210> 878

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 878

Phe Leu Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 879

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 879

Phe Gln Ser Lys Gly Asn Val Leu Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 880

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 880

Phe Gln Ser Lys Gly Asn Val Phe Leu Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 881

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 881

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Leu Leu

20

<210> 882

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 882

Phe Gln Ser Lys Gly Asn Met Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 883

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 883

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Met

1 5 10 15

Arg Ala Lys Leu

20

<210> 884

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 884

Phe Gln Ser Lys Gly Asn Asn Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 885

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 885

Phe Gln Ser Lys Gly Asn Val Asn Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 886

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 886

Phe Gln Ser Lys Gly Asn Val Phe Asn Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 887

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 887

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Asn Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 888

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 888

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Asn Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 889

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 889

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Asn

1 5 10 15

Arg Ala Lys Leu

20

<210> 890

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 890

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Asn Leu

20

<210> 891

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 891

Pro Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 892

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 892

Phe Pro Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 893

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 893

Phe Gln Pro Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 894

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 894

Phe Gln Ser Lys Gly Pro Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 895

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 895

Phe Gln Ser Lys Gly Asn Val Pro Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 896

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 896

Phe Gln Ser Lys Gly Asn Val Phe Pro Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 897

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 897

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Pro Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 898

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 898

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Pro

1 5 10 15

Arg Ala Lys Leu

20

<210> 899

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 899

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Pro Ala Lys Leu

20

<210> 900

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 900

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Pro Lys Leu

20

<210> 901

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 901

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Pro Leu

20

<210> 902

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 902

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Pro

20

<210> 903

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 903

Phe Gln Ser Lys Gly Asn Val Gln Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 904

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 904

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Gln Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 905

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 905

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Gln

1 5 10 15

Arg Ala Lys Leu

20

<210> 906

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 906

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Gln Leu

20

<210> 907

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 907

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Arg Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 908

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 908

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Arg Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 909

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 909

Phe Gln Ser Lys Gly Asn Val Ser Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 910

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 910

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Ser Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 911

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 911

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Ser Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 912

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 912

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Ser

1 5 10 15

Arg Ala Lys Leu

20

<210> 913

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 913

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Ser Leu

20

<210> 914

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 914

Phe Thr Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 915

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 915

Phe Gln Ser Lys Gly Asn Val Thr Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 916

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 916

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Thr Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 917

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 917

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Thr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 918

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 918

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Thr Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 919

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 919

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Thr

1 5 10 15

Arg Ala Lys Leu

20

<210> 920

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 920

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Thr Leu

20

<210> 921

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 921

Phe Val Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 922

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 922

Phe Gln Ser Lys Gly Asn Val Val Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 923

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 923

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Val Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 924

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 924

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Val Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 925

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 925

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Val Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 926

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 926

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Val Leu

20

<210> 927

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 927

Phe Trp Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 928

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 928

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Trp Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 929

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 929

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Trp Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 930

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 930

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Trp Leu

20

<210> 931

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 931

Phe Tyr Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 932

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 932

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Tyr Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 933

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 933

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Tyr Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 934

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 934

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Tyr

1 5 10 15

Arg Ala Lys Leu

20

<210> 935

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 935

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Tyr Leu

20

<210> 936

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (9)..(9)

<223> D-Val

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 936

Phe Gln Ser Lys Gly Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 937

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 937

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Asp

20

<210> 938

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222

> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 938

Leu Gln Ser Lys Thr Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ala Ala Lys Leu

20

<210> 939

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 939

Phe Gln Ser Lys Phe Asn Val Phe Val Asp Gly Tyr Thr Glu Arg Leu

1 5 10 15

Ala Ala Lys Leu

20

<210> 940

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 940

Phe Gln Ser Lys His Asn Val Phe Val Asp Gly His Phe Glu Arg Leu

1 5 10 15

Ala Ala Lys Leu

20

<210> 941

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 941

Phe Gln Ser Val His Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Pro

1 5 10 15

Ala Ala Lys Leu

20

<210> 942

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 942

Phe Gln Ser Lys Tyr Asn Val Phe Val Asp Glu Tyr Phe Glu Arg Leu

1 5 10 15

Ala Ala Lys Leu

20

<210> 943

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 943

Phe Gln Ser Lys Pro Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ala Ala Lys Leu

20

<210> 944

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 944

His Gln Gln Phe Lys Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Ala Ala Lys Leu

20

<210> 945

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 945

Phe Gln Ser Lys His Asn Val Phe Val Asp Ala Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 946

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 946

Phe Gln Ser Lys Lys Asn Val Phe Val Asp Gly Tyr Ser Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 947

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 947

Phe Gln Ser Lys Gly Asn Val Cys Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 948

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 948

Phe Gln Ser Lys Gly Asn Val Phe Cys Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 949

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 949

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Cys Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 950

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 950

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Cys Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 951

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 951

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Cys Leu

20

<210> 952

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 952

Phe Gln Ser Cys Lys Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Cys Ala Lys Leu

20

<210> 953

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 953

Phe Gln Ser Ala Tyr Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Cys Ala Lys Leu

20

<210> 954

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 954

Phe Gln Ser Val His Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Pro

1 5 10 15

Cys Ala Lys Leu

20

<210> 955

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 955

Phe Gln Ser Lys Tyr Asn Val Phe Val Asp Glu Tyr Phe Glu Arg Leu

1 5 10 15

Cys Ala Lys Leu

20

<210> 956

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (8)..(8)

<223> Xaa is 2-Amino-isobutyric acid

<220><221> MOD_RES

<222> (17)..(17)

<223> Xaa is 2-Amino-isobutyric acid

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400

> 956

Phe Gln Ser Lys Gly Asn Val Xaa Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Xaa Ala Lys Leu

20

<210> 957

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (12)..(12)

<223> Xaa is 2-Amino-isobutyric acid

<220><221> MOD_RES

<222> (17)..(17)

<223> Xaa is 2-Amino-isobutyric acid

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 957

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Xaa Phe Glu Arg Leu

1 5 10 15

Xaa Ala Lys Leu

20

<210> 958

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (15)..(15)

<223> Xaa is 2-Amino-isobutyric acid

<220>

<221> MOD_RES

<222> (17)..(17)

<223> Xaa is 2-Amino-isobutyric acid

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 958

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Xaa Leu

1 5 10 15

Xaa Ala Lys Leu

20

<210> 959

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221>

MOD_RES

<222> (17)..(17)

<223> Xaa is 2-Amino-isobutyric acid

<220><221> MOD_RES

<222> (19)..(19)

<223> Xaa is 2-Amino-isobutyric acid

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 959

Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Xaa Ala Xaa Leu

20

<210> 960

<211> 11

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220>

<221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (11)..(11)

<223> C-terminal amidation

<400> 960

Asp Gly Tyr Phe Glu Arg Leu Arg Ala Lys Leu

1 5 10

<210> 961

<211> 7

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (7)..(7)

<223> C-terminal amidation

<400> 961

Phe Gln Ser Lys Lys Asn Val

1 5

<210> 962

<211> 32

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal Biotinyl

<220><221> MOD_RES

<222> (1)..(1)

<223> Xaa is (13-Amino-4,7,10-trioxa-tridecayl)-succinamic acid

<220><221> MOD_RES

<222> (32)..(32)

<223> C-terminal amidation

<400> 962

Xaa Ser Gly Val Gly Arg Leu Gln Val Ala Phe Gln Ser Lys Lys Asn

1 5 10 15

Val Phe Val Phe Gly Tyr Phe Glu Arg Leu Arg Ala Lys Leu Thr Ser

20 25 30

<210> 963

<211> 33

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (32)..(32)

<223> Xaa is (13-Amino-4,7,10-trioxa-tridecayl)-succinamic acid

<220><221> MOD_RES

<222> (33)..(33)

<223> Xaa is Lysin(biotin)

<220><221> MOD_RES

<222> (33)..(33)

<223> C-terminal amidation

<400> 963

Ser Gly Val Gly Arg Leu Gln Val Ala Phe Gln Ser Lys Lys Asn Val
1 5 10 15

Phe Val Phe Gly Tyr Phe Glu Arg Leu Arg Ala Lys Leu Thr Ser Xaa
20 25 30

Xaa

<210> 964

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal Biotinyl

<220><221> MOD_RES

<

222> (1)..(1)

<223> Xaa is (13-Amino-4,7,10-trioxa-tridecayl)-succinamic acid

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 964

Xaa Ala Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu

1 5 10 15

Arg Leu Arg Ala Lys

20

<210> 965

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal Biotinyl

<220><221> MOD_RES

<222> (1)..(1)

<223> Xaa is (13-Amino-4,7,10-trioxa-tridecayl)-succinamic acid

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 965

Xaa Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg

1 5 10 15

Leu Arg Ala Lys Leu

20

<210> 966

<211> 22

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223

> N-terminal Biotinyl

<220><221> MOD_RES

<222> (1)..(1)

<223> Xaa is (13-Amino-4,7,10-trioxa-tridecayl)-succinamic acid

<220><221> MOD_RES

<222> (2)..(2)

<223> Xaa is (13-Amino-4,7,10-trioxa-tridecayl)-succinamic acid

<220><221> MOD_RES

<222> (22)..(22)

<223> C-terminal amidation

<400> 966

Xaa Xaa Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg

1 5 10 15

Leu Arg Ala Lys Leu Thr

20

<210

> 967

<211> 19

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal Biotinyl

<220><221> MOD_RES

<222> (1)..(1)

<223> Xaa is (13-Amino-4,7,10-trioxa-tridecayl)-succinamic acid

<220><221> MOD_RES

<222> (19)..(19)

<223> C-terminal amidation

<400> 967

Xaa Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys

<210> 968

<211> 25

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal Biotinyl

<220><221> MOD_RES

<222> (1)..(1)

<223> Xaa is (13-Amino-4,7,10-trioxa-tridecayl)-succinamic acid

<220><221> MOD_RES

<222> (25)..(25)

<223> C-terminal amidation

<400> 968

Xaa Lys Lys Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe

1 5 10 15

Glu Arg Leu Arg Ala Lys Leu Lys Lys

20 25

<210> 969

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal Biotinyl

<220><221> MOD_RES

<222> (1)..(1)

<223> Xaa is (13-Amino-4,7,10-trioxa-tridecayl)-succinamic acid

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 969

Xaa Gly Lys Asn Ala Lys Phe Tyr Leu Phe Glu Ser Leu Arg Gln Val

1 5 10 15

Lys Phe Val Phe Arg

20

<210> 970

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal Biotinyl

<220><221> MOD_RES

<222> (1)..(1)

<223> Xaa is (13-Amino-4,7,10-trioxa-tridecayl)-succinamic acid

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 970

Xaa Tyr Lys Phe Ser Phe Asn Lys Glu Leu Phe Lys Gln Ala Arg Leu

1 5 10 15

Arg Phe Val Gly Val

20

<210> 971

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal Biotinyl

<220><221> MOD_RES

<222> (1)..(1)

<223> Xaa is (13-Amino-4,7,10-trioxa-tridecayl)-succinamic acid

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 971

Xaa Ser Gly Val Gly Arg Leu Gln Val Ala Phe Gln Ser Lys Lys Asn

1 5 10 15

Val Phe Val Phe Gly

20

<210> 972

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal Biotinyl

<220><221> MOD_RES

<222> (1)..(1)

<223> Xaa is (13-Amino-4,7,10-trioxa-tridecayl)-succinamic acid

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 972

Xaa Phe Gln Ser Lys Lys Asn Val Phe Val Asp Gly Tyr Phe Glu Arg

1 5 10 15

Leu Arg Ala Lys Leu

20

<210> 973

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal Biotinyl

<220><221> MOD_RES

<222> (1)..(1)

<223> Xaa is (13-Amino-4,7,10-trioxa-tridecayl)-succinamic acid

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 973

Xaa Phe Gln Ser Lys Asn Asn Val Phe Val Phe Gly Tyr Phe Glu Arg

1 5 10 15

Leu Arg Ala Lys Leu

20

<210> 974

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> C-terminal Biotinyl

<220><221> MOD_RES

<222> (1)..(1)

<223> Xaa is (13-Amino-4,7,10-trioxa-tridecayl)-succinamic acid

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 974

Xaa Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Asp Arg

1 5 10 15

Leu Arg Ala Lys Leu

20

<210> 975

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal Biotinyl

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 975

Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 976

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 976

Phe Gln Ser Lys Asp Asn Val Phe Val Asp Gly Tyr Phe Asp Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 977

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal Biotinyl

<220><221> MOD_RES

<222> (1)..(1)

<223> Xaa is (13-Amino-4,7,10-trioxa-tridecayl)-succinamic acid

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 977

Xaa Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg

1 5 10 15

Leu Arg Ala Lys Leu

20

<210> 978

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223

> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal N-propyl

<400> 978

Phe Gln Ser Lys Gly Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 979

<400> 979

000

<210> 980

<400> 980

000

<210> 981

<400> 981

000

<210> 982

<400> 982

000

<210> 983

<400> 983

000

<210> 984

<400> 984

000

<210> 985

<400> 985

000

<210> 986

<400> 986

000

<210> 987

<400> 987

000

<210> 988

<400> 988

000

<210> 989

<400> 989

000

<210> 990

<400> 990

000

<210> 991

<400> 991

000

<210> 992

<400> 992

000

<210> 993

<400> 993

000

<210> 994

<400> 994

000

<210> 995

<400> 995

000

<210> 996

<400> 996

000

<210> 997

<400> 997

000

<210> 998

<400> 998

000

<210> 999

<400> 999

000

<210> 1000

<400> 1000

000

<210> 1001

<211> 35

<212> PRT

<213>

Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (12)..(23)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (35)..(35)

<223> C-terminal amidation

<400> 1001

Lys Lys Ser Gly Ala Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp
1 5 10 15

Met Lys Gly Thr Met Ser Cys Val Trp Val Lys Phe Arg Tyr Asp Thr
20 25 30

Ser Lys Lys
35

<210> 1002

<211> 28

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (10)..(21)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (28)..(28)

<223> C-terminal amidation

<400> 1002

Ser Gly Ala Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys

1 5 10 15

Gly Thr Met Ser Cys Val Trp Val Lys Phe Arg Tyr

20 25

<210> 1003

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1003

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1004

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1004

Ser Arg Tyr Lys Trp Phe Cys Ala Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1005

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal amidation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1005

Ser Arg Tyr Lys Trp Phe Cys Ala Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1006

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1006

Ser Arg Tyr Lys Trp Phe Cys Gly Met Pro Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1007

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1007

Asp Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1008

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1008

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Asp Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1009

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1009

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Asp

20

<210> 1010

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1010

Ser Phe Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1011

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1011

Ser Arg Phe Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1012

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1012

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Phe Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1013

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1013

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Phe

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1014

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1014

Gly Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1015

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1015

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Gly Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1016

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1016

Lys Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1017

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1017

Ser Arg Tyr Lys Trp Phe Cys Gly Met Lys Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1018

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1018

Leu Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1019

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1019

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Leu Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1020

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1020

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Leu

20

<210> 1021

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1021

Ser Arg Tyr Lys Trp Phe Cys Ser Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1022

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1022

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Ser Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1023

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1023

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Pro Phe

20

<210> 1024

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1024

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1025

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (12)..(12)

<223> D-Leu

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1025

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Leu Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1026

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1026

Ser Met Tyr Lys Trp His Cys Gly Met Arg Asp Met Lys Gly Thr Tyr

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1027

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1027

Phe His Tyr Lys Trp His Cys Gly Met Arg Asp Met Lys Gly Thr Tyr
1 5 10 15

Ser Cys Val Trp Val Lys Phe
20

<210> 1028

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1028

Ser Tyr Tyr Lys Trp His Cys Gly Met Arg Asp Met Lys Gly Ile Met
1 5 10 15

Ser Cys Ala Trp Val Lys Phe
20

<210> 1029

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1029

Ser Tyr Tyr Lys Trp His Cys Gly Met Arg Asp Met Lys Gly Ile Met

1 5 10 15

Ser Cys Val Trp Val Lys Tyr

20

<210> 1030

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1030

Ser Tyr Tyr Lys Trp His Cys Gly Met Arg Asp Met Lys Gly Ile Asp

1 5 10 15

Ser Cys Val Trp Val Arg Phe

20

<210> 1031

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1031

Ser Tyr Tyr Lys Trp His Cys Gly Met Arg Asp Met Lys Gly Ile Met

1 5 10 15

Ser Cys Val Trp Val Lys Ala

20

<210> 1032

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1032

Ser Tyr Tyr Lys Trp His Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Thr Cys Val Trp Val Lys Phe

20

<210> 1033

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1033

Ser Tyr Tyr Lys Trp His Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Ser

20

<210> 1034

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1034

Ser His Tyr Lys Trp His Cys Ala Met Arg Asp Met Lys Gly Thr Tyr

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1035

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1035

Ser Tyr Tyr Lys Trp His Cys Gly Val Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Ser

20

<210> 1036

<211> 22

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (22)..(22)

<223> C-terminal amidation

<400> 1036

Gly His Tyr Lys Trp His Cys Gly Met Arg Asp Met Lys Gly Thr Phe

1 5 10 15

Ser Cys Val Trp Val Phe

20

<210> 1037

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1037

Ala Tyr Tyr Lys Trp His Cys Gly Met Arg Asp Leu Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Ser

20

<210> 1038

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1038

Ser Tyr Tyr Lys Trp His Cys Gly Met Arg Asp Met Lys Gly Thr Tyr

1 5 10 15

Ser Cys Val Trp Val Lys Met

20

<210> 1039

<211> 22

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (22)..(22)

<223> C-terminal amidation

<400> 1039

Ser His Tyr Lys Trp His Cys Gly Met Arg Asp Met Lys Gly Ile Met

1 5 10 15

Ser Cys Val Trp Val Phe

20

<210> 1040

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1040

Phe Tyr Tyr Lys Trp His Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Ala Trp Val Lys Phe

20

<210> 1041

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1041

Ser Tyr Tyr Lys Trp His Cys Gly Met Arg Asp Met Lys Gly Thr Asp

1 5 10 15

Ser Cys Val Trp Val Trp Tyr

20

<210> 1042

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1042

Ser His Tyr Lys Trp His Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Ala Trp Val Lys Phe

20

<210> 1043

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1043

His Tyr Tyr Lys Trp His Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Ser

20

<210> 1044

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1044

Ser Tyr Tyr Lys Trp His Cys Ala Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Thr Cys Val Trp Val Lys Phe

20

<210> 1045

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1045

Ser Tyr Tyr Lys Trp His Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Leu Phe

20

<210> 1046

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1046

Ser His Tyr Lys Trp His Cys Ala Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Ala Trp Val Lys Phe

20

<210> 1047

<211> 31

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (10)..(22)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (31)..(31)

<223> C-terminal amidation

<400> 1047

Ser Gly Ala Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys

1 5 10 15

Gly Thr Met Ser Cys Val Trp Val Lys Phe Arg Tyr Asp Thr Ser

20 25 30

<210> 1048

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1048

Ala Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1049

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1049

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Ala Trp Val Lys Phe

20

<210> 1050

<211> 22

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (6)..(17)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (22)..(22)

<223> C-terminal amidation

<400> 1050

Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met Ser

1 5 10 15

Cys Val Trp Val Lys Phe

20

<210> 1051

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (12)..(12)

<223> D-Met

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400

> 1051

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1052

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223>

C-terminal amidation

<400> 1052

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Asp Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1053

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1053

Phe Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1054

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1054

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Phe Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1055

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1055

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Gly Met
1 5 10 15

Ser Cys Val Trp Val Lys Phe
20

<210> 1056

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1056

Ser Lys Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1057

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1057

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Lys Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1058

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1058

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Lys Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1059

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1059

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Lys

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1060

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1060

Ser Leu Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1061

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1061

Ser Arg Tyr Lys Trp Leu Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1062

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1062

Ser Arg Tyr Lys Trp Phe Cys Gly Met Leu Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1063

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1063

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Leu Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1064

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<

223> C-terminal amidation

<400> 1064

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Leu

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1065

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1065

Ser Ser Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1066

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1066

Ser Arg Ser Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1067

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES
<222> (23)..(23)
<223> C-terminal amidation
<400> 1067
Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Ser Lys Gly Thr Met
1 5 10 15
Ser Cys Val Trp Val Lys Phe
20
<210> 1068
<211> 23
<212> PRT
<213> Artificial Sequence
<220><223> Synthetic peptide
<220><221> MOD_RES
<222> (1)..(1)
<223> N-terminal acetylation
<220><221> DISULFID
<222> (7)..(18)
<223> Cys residues linked via disulfide bond

<220><221> MOD_RES
<222> (23)..(23)
<223> C-terminal amidation
<400> 1068
Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Ser Met
1 5 10 15
Ser Cys Val Trp Val Lys Phe
20
<210> 1069
<211> 23
<212> PRT
<213> Artificial Sequence
<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1069

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Ser

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1070

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1070

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Ser Phe

20

<210> 1071

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1071

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Ser

20

<210> 1072

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1072

Pro Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1073

<211> 22

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> DISULFID

<222> (6)..(17)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (22)..(22)

<

223> C-terminal amidation

<400> 1073

Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met Ser

1 5 10 15

Cys Val Trp Val Lys Phe

20

<210> 1074

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (12)..(12)

<223> D-Phe

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1074

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Phe Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1075

<211> 28

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222

> (10)..(21)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (28)..(28)

<223> C-terminal amidation

<400> 1075

Ser Gly Ala Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys

1 5 10 15

Gly Thr Met Ser Cys Val Trp Val Lys Phe Arg Tyr

20 25

<210> 1076

<211> 28

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (28)..(28)

<223> C-terminal amidation

<400> 1076

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met
1 5 10 15

Ser Cys Val Trp Val Lys Phe Arg Tyr Asp Thr Ser
20 25

<210> 1077

<211> 23

<212> PRT

<213> Artificial Sequence

<220

><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (9)..(9)

<223> Xaa is (S)-Norleucine

<220><221> MOD_RES

<222> (12)..(12)

<223> Xaa is (S)-Norleucine

<220><221> MOD_RES

<222> (16)..(16)

<223> Xaa is (S)-Norleucine

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1077

Ser Arg Tyr Lys Trp Phe Cys Gly Xaa Arg Asp Xaa Lys Gly Thr Xaa

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1078

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1078

Ser Ala Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1079

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1079

Ser Arg Tyr Lys Trp Phe Cys Gly Met Ala Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1080

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1080

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Ala Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1081

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1081

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Ala Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1082

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1082

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Ala Phe

20

<210> 1083

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1083

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Ala

20

<210> 1084

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1084

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Pro Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1085

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1085

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Asp Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1086

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1086

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Asp

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1087

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1087

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Phe Trp Val Lys Phe

20

<210> 1088

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1088

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Gly Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1089

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1089

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Gly Phe

20

<210> 1090

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1090

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Gly

20

<210> 1091

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1091

Ser Arg Tyr Lys Trp Lys Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1092

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1092

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Leu Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1093

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1093

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Leu Trp Val Lys Phe

20

<210> 1094

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1094

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Leu Lys Phe

20

<210> 1095

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1095

Ser Arg Tyr Lys Trp Phe Cys Gly Met Ser Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1096

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1096

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Ser Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1097

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1097

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Ser Trp Val Lys Phe

20

<210> 1098

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<400> 1098

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1099

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<400> 1099

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1100

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (9)..(9)

<223> D-Pro

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1100

Ser Arg Tyr Lys Trp Phe Cys Gly Pro Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1101

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (12)..(12)

<223> D-Asp

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1101

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Asp Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1102

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (12)..(12)

<223> D-Lys

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1102

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Lys Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1103

<211> 25

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (10)..(21)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (25)..(25)

<223> C-terminal amidation

<400> 1103

Ser Gly Ala Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys

1 5 10 15

Gly Thr Met Ser Cys Val Trp Val Lys

20 25

<210> 1104

<211> 31

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (10)..(21)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (12)..(12)

<223> Xaa is (S)-Noreleucine

<220><221> MOD_RES

<222> (15)..(15)

<223> Xaa is (S)-Noreleucine

<220><221> MOD_RES

<222> (19)..(19)

<223> Xaa is (S)-Noreleucine

<220><221> MOD_RES

<222> (31)..(31)

<223> C-terminal amidation

<400> 1104

Ser Gly Ala Ser Arg Tyr Lys Trp Phe Cys Gly Xaa Arg Asp Xaa Lys

1 5 10 15

Gly Thr Xaa Ser Cys Val Trp Val Lys Phe Arg Tyr Asp Thr Ser

20 25 30

<210> 1105

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1105

Ser Arg Ala Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1106

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (5)..(5)

<223> D-Ala

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (17)..(17)

<223> Xaa is Norleucine

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1106

Ser Arg Tyr Ala Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met
1 5 10 15

Ser Cys Val Trp Val Lys Phe
20

<210> 1107

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1107

Ser Arg Tyr Lys Trp Phe Cys Gly Ala Arg Asp Met Lys Gly Thr Met
1 5 10 15

Ser Cys Val Trp Val Lys Phe
20

<210> 1108

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1108

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Ala Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1109

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (5)..(5)

<223> N-methyl-Gly

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1109

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Ala

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1110

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1110

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ala Cys Val Trp Val Lys Phe

20

<210> 1111

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (5)..(16)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 1111

Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met Ser Cys

1 5 10 15

Val Trp Val Lys Phe

20

<210> 1112

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (7)..(7)

<223> Homo-Cys

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1112

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1113

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (9)..(9)

<223> D-Met

<220

><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1113

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1114

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (13)..(13)

<223> D-Lys

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1114

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1115

<211> 25

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220

><221> DISULFID

<222> (9)..(20)

<223> Cys residues linked via disulfide bond

<400> 1115

Gly Ser Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly

1 5 10 15

Thr Met Ser Cys Val Trp Val Lys Phe

20 25

<210> 1116

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1116

Ser Asp Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1117

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1117

Ser Arg Tyr Asp Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1118

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1118

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Asp Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1119

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223

> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1119

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Asp Cys Val Trp Val Lys Phe

20

<210> 1120

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1120

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Asp Phe

20

<210> 1121

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1121

Ser Arg Tyr Phe Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1122

<211> 23

<212> PRT

<213> Artificial Sequence

<220

><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1122

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Phe Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1123

<211> 23

<212> PRT

<213

> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1123

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Phe Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1124

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1124

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Phe Cys Val Trp Val Lys Phe

20

<210> 1125

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1125

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Phe Val Lys Phe

20

<210> 1126

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1126

Ser Gly Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1127

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1127

Ser Arg Tyr Gly Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1128

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1128

Ser Arg Tyr Lys Trp Phe Cys Gly Met Gly Asp Met Lys Gly Thr Met
1 5 10 15

Ser Cys Val Trp Val Lys Phe
20

<210> 1129

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1129

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Gly Met Lys Gly Thr Met
1 5 10 15

Ser Cys Val Trp Val Lys Phe
20

<210> 1130

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1130

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Gly

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1131

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1131

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Gly Cys Val Trp Val Lys Phe

20

<210> 1132

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1132

Ser Arg Lys Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1133

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1133

Ser Arg Tyr Lys Trp Phe Cys Gly Lys Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1134

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1134

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Lys Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1135

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1135

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met
1 5 10 15

Lys Cys Val Trp Val Lys Phe
20

<210> 1136

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1136

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met
1 5 10 15

Ser Cys Val Trp Val Lys Lys
20

<210> 1137

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1137

Ser Arg Leu Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1138

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1138

Ser Arg Tyr Leu Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1139

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1139

Ser Arg Tyr Lys Trp Phe Cys Gly Leu Arg Asp Met Lys Gly Thr Met
1 5 10 15

Ser Cys Val Trp Val Lys Phe
20

<210> 1140

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1140

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Leu Thr Met
1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1141

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1141

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Leu Cys Val Trp Val Lys Phe

20

<210> 1142

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1142

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met
1 5 10 15
Ser Cys Val Trp Val Leu Phe
20

<210> 1143

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1143

Ser Arg Tyr Ser Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met
1 5 10 15
Ser Cys Val Trp Val Lys Phe
20

<210> 1144

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1144

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Ser Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1145

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1145

Ser Pro Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1146

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1146

Ser Arg Tyr Lys Trp Phe Cys Gln Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1147

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1147

Ser Arg Tyr Lys Trp Phe Cys Arg Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1148

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (5)..(16)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1148

Ser Arg Tyr Lys Trp Phe Cys Thr Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1149

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 1149

Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met Ser Cys

1 5 10 15

Val Trp Val Lys Phe

20

<210> 1150

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (9)..(9)

<223> D-Ala

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1150

Ser Arg Tyr Lys Trp Phe Cys Gly Ala Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1151

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (12)..(12)

<223> D-Ala

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1151

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Ala Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210

> 1152

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (12)..(12)

<223> D-Ser

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1152

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Ser Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1153

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (13)..(13)

<223> D-Asp

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1153

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Asp Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1154

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (13)..(13)

<223> D-Ser

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1154

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Ser Gly Thr Met
1 5 10 15

Ser Cys Val Trp Val Lys Phe
20

<210> 1155

<211> 25

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (4)..(15)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (25)..(25)

<

223> C-terminal amidation

<400> 1155

Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met Ser Cys Val
1 5 10 15

Trp Val Lys Phe Arg Tyr Asp Thr Ser
20 25

<210> 1156

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (4)..(15)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 1156

Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met Ser Cys Val

1 5 10 15

Trp Val Lys Phe

20

<210> 1157

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1157

Ser Arg Tyr Lys Trp Phe Ala Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1158

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1158

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Ala Met Lys Gly Thr Met
1 5 10 15

Ser Cys Val Trp Val Lys Phe
20

<210> 1159

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<

223> C-terminal amidation

<400> 1159

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Ala Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1160

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1160

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Ala Val Trp Val Lys Phe

20

<210> 1161

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1161

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Ala Lys Phe

20

<210> 1162

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (10)..(15)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1162

Ser Arg Tyr Lys Trp Phe Gly Met Arg Cys Asp Met Lys Gly Cys Thr

1 5 10 15

Met Ser Val Trp Val Lys Phe

20

<210> 1163

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (18)..(18)

<223> Homo-Cys

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1163

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1164

<211> 22

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (22)..(22)

<

223> C-terminal amidation

<400> 1164

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Lys Gly Thr Met Ser

1 5 10 15

Cys Val Trp Val Lys Phe

20

<210> 1165

<211> 22

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (22)..(22)

<223> C-terminal amidation

<400> 1165

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Gly Thr Met Ser

1 5 10 15

Cys Val Trp Val Lys Phe

20

<210> 1166

<211> 22

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<

220><221> MOD_RES

<222> (22)..(22)

<223> C-terminal amidation

<400> 1166

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Met Ser

1 5 10 15

Cys Val Trp Val Lys Phe

20

<210> 1167

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (7)..(7)

<223> d-Cys

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 1167

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1168

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><

221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (11)..(11)

<223> D-Asp

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1168

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1169

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (15)..(15)

<223> D-Thr

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1169

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1170

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (17)..(17)

<223> D-Ser

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1170

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1171

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (18)..(18)

<223> D-Cys

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1171

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1172

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1172

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Pro Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1173

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1173

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Pro Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1174

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1174

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Pro Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1175

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1175

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Pro

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1176

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1176

Ser Arg Asp Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1177

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1177

Ser Arg Tyr Lys Trp Phe Cys Gly Asp Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1178

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1178

Ser Arg Tyr Lys Trp Phe Cys Gly Phe Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1179

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1179

Ser Arg Tyr Lys Trp Phe Cys Gly Met Phe Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1180

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1180

Ser Arg Gly Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1181

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1181

Ser Arg Tyr Lys Trp Phe Cys Gly Gly Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1182

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1182

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Gly Trp Val Lys Phe

20

<210> 1183

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1183

Ser Arg Tyr Lys Trp Phe Cys Lys Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1184

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1184

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Lys Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1185

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1185

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Leu Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1186

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1186

Ser Arg Tyr Lys Trp Phe Cys Gly Ser Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1187

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1187

Ser Arg Pro Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1188

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1188

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Pro

20

<210> 1189

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1189

Ser Arg Tyr Lys Trp Phe Cys Met Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1190

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1190

Ser Arg Tyr Lys Trp Phe Cys Asn Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1191

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1191

Ser Arg Tyr Lys Trp Phe Cys Trp Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1192

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (9)..(9)

<223> D-Phe

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1192

Ser Arg Tyr Lys Trp Phe Cys Gly Phe Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1193

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (9)..(9)

<223

> D-Lys

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1193

Ser Arg Tyr Lys Trp Phe Cys Gly Lys Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1194

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (9)..(9)

<223> D-Leu

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1194

Ser Arg Tyr Lys Trp Phe Cys Gly Leu Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1195

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><

221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (9)..(9)

<223> D-Ser

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1195

Ser Arg Tyr Lys Trp Phe Cys Gly Ser Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1196

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (12)..(12)

<223> D-Pro

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1196

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Pro Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1197

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (13)..(13)

<223> D-Ala

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1197

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Ala Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1198

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (13)..(13)

<223> D-Phe

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1198

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Phe Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1199

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (13)..(13)

<223> D-Leu

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1199

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Leu Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1200

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (13)..(13)

<

223> D-Pro

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1200

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Pro Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1201

<211> 24

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (24)..(24)

<223>

C-terminal amidation

<400> 1201

Lys Lys Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly

1 5 10 15

Thr Met Ser Cys Val Trp Lys Lys

20

<210> 1202

<211> 24

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (24)..(24)

<223> C-terminal amidation

<400> 1202

Lys Lys Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met Ser

1 5 10 15

Cys Val Trp Val Lys Phe Lys Lys

20

<210> 1203

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (4)..(15)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 1203

Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met Ser Cys Val

1 5 10 15

Trp Val Lys Phe

20

<210> 1204

<211> 31

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (31)..(31)

<223> C-terminal amidation

<400> 1204

Ser Gly Ala Ser Arg Tyr Lys Trp Phe Ser Gly Met Arg Asp Met Lys

1 5 10 15

Gly Thr Met Ser Ser Val Trp Val Lys Phe Arg Tyr Asp Thr Ser

20 25 30

<210> 1205

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (6)..(6)

<223> Xaa is (S)-Norleucine

<220><221> MOD_RES

<222> (9)..(9)

<223> Xaa is (S)-Norleucine

<220><221> MOD_RES

<222> (13)..(13)

<223> Xaa is (S)-Norleucine

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 1205

Lys Trp Phe Ser Gly Xaa Arg Asp Xaa Lys Gly Thr Xaa Ser Ser Val
1 5 10 15

Trp Val Lys Phe
20

<210> 1206

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 1206

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met
1 5 10 15

Ser Cys Val Trp

20

<210> 1207

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 1207

Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met Ser Cys Val

1 5 10 15

Trp Val Lys Phe

20

<210> 1208

<211> 31

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (12)..(12)

<223> Xaa is (S)-Norleucine

<220><221> MOD_RES

<222> (15)..(15)

<223> Xaa is (S)-Norleucine

<220><221> MOD_RES

<222> (19)..(19)

<223> Xaa is (S)-Norleucine

<220><221> MOD_RES

<222> (31)..(31)

<223> C-terminal amidation

<400> 1208

Ser Gly Ala Ser Arg Tyr Lys Trp Phe Ser Gly Xaa Arg Asp Xaa Lys
1 5 10 15

Gly Thr Xaa Ser Ser Val Trp Val Lys Phe Arg Tyr Asp Thr Ser
20 25 30

<210> 1209

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (4)..(15)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (6)..(6)

<223> Xaa is (S)-Norleucine

<220><221> MOD_RES

<222> (9)..(9)

<223> Xaa is (S)-Norleucine

<220><221> MOD_RES

<222> (13)..(13)

<223> Xaa is (S)-Norleucine

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 1209

Lys Trp Phe Cys Gly Xaa Arg Asp Xaa Lys Gly Thr Xaa Ser Cys Val

1 5 10 15

Trp Val Lys Phe

20

<210> 1210

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (9)..(9)

<223> Xaa is (S)-Norleucine

<220><221> MOD_RES

<222> (12)..(12)

<223> Xaa is (S)-Norleucine

<220><221> MOD_RES

<222> (16)..(16)

<223> Xaa is (S)-Norleucine

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1210

Ser Arg Tyr Lys Trp Phe Ser Gly Xaa Arg Asp Xaa Lys Gly Thr Xaa

1 5 10 15

Ser Ser Val Trp Val Lys Phe

20

<210> 1211

<211> 31

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (10)..(21)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (31)..(31)

<223> C-terminal amidation

<400> 1211

Arg Lys Arg Asp Val Ser Gly Lys Met Cys Trp Ser Gly Phe Gly Ser
1 5 10 15

Lys Trp Phe Arg Cys Ala Asp Met Met Thr Tyr Tyr Ser Val Thr
20 25 30

<210> 1212

<211> 31

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (10)..(21)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (31)..(31)

<223> C-terminal amidation

<400> 1212

Arg Trp Ser Gly Lys Ser Thr Tyr Ser Cys Asp Ala Met Val Arg Arg
1 5 10 15

Met Gly Met Lys Cys Phe Ser Phe Gly Trp Thr Asp Val Tyr Lys

20 25 30

<210> 1213

<211> 31

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (31)..(31)

<223> C-terminal amidation

<400> 1213

Ser Gly Ala Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys

1 5 10 15

Gly Thr Met Ser Cys Val Trp Val Lys Phe Arg Tyr Asp Thr Ser

20 25 30

<210> 1214

<211> 24

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (24)..(24)

<223> C-terminal amidation

<400> 1214

Lys Lys Ser Gly Ala Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp

1 5 10 15

Met Lys Gly Thr Met Ser Lys Lys

20

<210> 1215

<211> 24

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (24)..(24)

<223> C-terminal amidation

<400> 1215

Lys Lys Cys Gly Met Arg Asp Met Lys Gly Thr Met Ser Cys Val Trp

1 5 10 15

Val Lys Phe Arg Tyr Asp Lys Lys

20

<210> 1216

<211> 24

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (24)..(24)

<223> C-terminal amidation

<400> 1216

Lys Lys Met Arg Asp Met Lys Gly Thr Met Ser Cys Val Trp Val Lys

1 5 10 15

Phe Arg Tyr Asp Thr Ser Lys Lys

20

<210> 1217

<211> 22

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (10)..(21)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (22)..(22)

<223> C-terminal amidation

<400> 1217

Ser Gly Ala Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys

1 5 10 15

Gly Thr Met Ser Cys Val

20

<210> 1218

<211> 19

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (19)..(19)

<223> C-terminal amidation

<400> 1218

Ser Gly Ala Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys

1 5 10 15

Gly Thr Met

<210> 1219

<211> 22

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (1)..(12)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (22)..(22)

<223> C-terminal amidation

<400> 1219

Cys Gly Met Arg Asp Met Lys Gly Thr Met Ser Cys Val Trp Val Lys

1 5 10 15

Phe Arg Tyr Asp Thr Ser

20

<210> 1220

<211> 19

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220

><221> MOD_RES

<222> (19)..(19)

<223> C-terminal amidation

<400> 1220

Arg Asp Met Lys Gly Thr Met Ser Cys Val Trp Val Lys Phe Arg Tyr

1 5 10 15

Asp Thr Ser

<210> 1221

<211> 19

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (19)..(19)

<223> C-terminal amidation

<400> 1221

Arg Asp Met Lys Gly Thr Met Ser Cys Val Trp Val Lys Phe Arg Tyr

1 5 10 15

Asp Thr Ser

<210> 1222

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 1222

Ser Gly Ala Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys

1 5 10 15

Gly Thr Met Ser

20

<210> 1223

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 1223

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp

20

<210> 1224

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (1)..(12)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 1224

Cys Gly Met Arg Asp Met Lys Gly Thr Met Ser Cys Val Trp Val Lys
1 5 10 15

Phe Arg Tyr Asp
20

<210> 1225

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 1225

Met Arg Asp Met Lys Gly Thr Met Ser Cys Val Trp Val Lys Phe Arg
1 5 10 15

Tyr Asp Thr Ser
20

<210> 1226

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 1226

Met Arg Asp Met Lys Gly Thr Met Ser Cys Val Trp Val Lys Phe Arg

1 5 10 15

Tyr Asp Thr Ser

20

<210> 1227

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 1227

Cys Gly Met Arg Asp Met Lys Gly Thr Met Ser Cys Val Trp Val Lys

1 5 10 15

Phe Arg Tyr Asp

20

<210> 1228

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 1228

Lys Trp Phe Ser Gly Met Arg Asp Met Lys Gly Thr Met Ser Ser Val

1 5 10 15

Trp Val Lys Phe

20

<210> 1229

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1229

Ser Arg Tyr Lys Trp Phe Ser Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Ser Val Trp Val Lys Phe

20

<210> 1230

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 1230

Ser Arg Tyr Lys Ala Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1231

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1231

Ser Arg Tyr Lys Trp Ala Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1232

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1232

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Ala Val Lys Phe

20

<210> 1233

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (9)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1233

Ser Arg Tyr Lys Trp Phe Gly Met Cys Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1234

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (11)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1234

Ser Arg Tyr Lys Trp Phe Gly Met Arg Asp Cys Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1235

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (13)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1235

Ser Arg Tyr Lys Trp Phe Gly Met Arg Asp Met Lys Cys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1236

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(16)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1236

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Cys

1 5 10 15

Met Ser Val Trp Val Lys Phe

20

<210> 1237

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(14)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1237

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Cys Gly Thr

1 5 10 15

Met Ser Val Trp Val Lys Phe

20

<210> 1238

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(12)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1238

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Cys Met Lys Gly Thr

1 5 10 15

Met Ser Val Trp Val Lys Phe

20

<210> 1239

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (8)..(17)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1239

Ser Arg Tyr Lys Trp Phe Gly Cys Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Cys Ser Val Trp Val Lys Phe

20

<210> 1240

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (9)..(16)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1240

Ser Arg Tyr Lys Trp Phe Gly Met Cys Arg Asp Met Lys Gly Thr Cys

1 5 10 15

Met Ser Val Trp Val Lys Phe

20

<210> 1241

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (7)..(7)

<223> Homo-Cys

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (18)..(18)

<223> Homo-Cys

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1241

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1242

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (7)..(7)

<223> Xaa is (S)-Diaminopropionic acid

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1242

Ser Arg Tyr Lys Trp Phe Xaa Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Asp Val Trp Val Lys Phe

20

<210> 1243

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1243

Ser Arg Tyr Lys Trp Phe Lys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Asp Val Trp Val Lys Phe

20

<210> 1244

<211> 22

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(17)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (22)..(22)

<223> C-terminal amidation

<400> 1244

Ser Arg Tyr Lys Trp Phe Cys Met Arg Asp Met Lys Gly Thr Met Ser

1 5 10 15

Cys Val Trp Val Lys Phe

20

<210> 1245

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (10)..(10)

<223> D-Arg

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1245

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1246

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220

><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (16)..(16)

<223> D-Met

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1246

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1247

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1247

Ser Arg Tyr Lys Trp Phe Cys Pro Met Arg Asp Met Lys Gly Thr Met
1 5 10 15

Ser Cys Val Trp Val Lys Phe
20

<210> 1248

<211> 23

<212> PRT

<213> Artificial Sequence

<220

><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1248

Ser Arg Tyr Lys Trp Phe Cys Gly Pro Arg Asp Met Lys Gly Thr Met
1 5 10 15

Ser Cys Val Trp Val Lys Phe
20

<210> 1249

<211> 23

<212> PRT

<213

> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1249

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Pro Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1250

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1250

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Pro Cys Val Trp Val Lys Phe
20

<210> 1251
<211> 23
<212> PRT
<213> Artificial Sequence
<220><223> Synthetic peptide
<220><221> MOD_RES
<222> (1)..(1)
<223> N-terminal acetylation
<220><221> DISULFID
<222> (7)..(18)
<223> Cys residues linked via disulfide bond
<220><221> MOD_RES
<222> (23)..(23)
<223> C-terminal amidation
<400> 1251
Ser Arg Tyr Lys Asp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met
1 5 10 15
Ser Cys Val Trp Val Lys Phe
20

<210> 1252
<211> 23
<212> PRT
<213> Artificial Sequence
<220><223> Synthetic peptide
<220><221> MOD_RES
<222> (1)..(1)
<223> N-terminal acetylation
<220><221> DISULFID
<222> (7)..(18)
<223> Cys residues linked via disulfide bond
<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1252

Ser Arg Tyr Lys Trp Asp Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1253

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1253

Ser Arg Tyr Lys Trp Phe Cys Asp Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1254

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1254

Ser Arg Tyr Lys Trp Phe Cys Gly Met Asp Asp Met Lys Gly Thr Met
1 5 10 15

Ser Cys Val Trp Val Lys Phe
20

<210> 1255

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1255

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met
1 5 10 15

Ser Cys Asp Trp Val Lys Phe
20

<210> 1256

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1256

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Asp Val Lys Phe

20

<210> 1257

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1257

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Asp Lys Phe

20

<210> 1258

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1258

Ser Arg Tyr Lys Phe Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1259

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1259

Ser Arg Tyr Lys Trp Phe Cys Phe Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1260

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1260

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Phe Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1261

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1261

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met
1 5 10 15

Ser Cys Val Trp Phe Lys Phe
20

<210> 1262

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1262

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met
1 5 10 15

Ser Cys Val Trp Val Phe Phe
20

<210> 1263

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1263

Ser Arg Tyr Lys Gly Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1264

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1264

Ser Arg Tyr Lys Trp Gly Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1265

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1265

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Gly Val Lys Phe

20

<210> 1266

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1266

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Gly Lys Phe

20

<210> 1267

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1267

Ser Arg Tyr Lys Lys Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1268

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1268

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met
1 5 10 15

Ser Cys Lys Trp Val Lys Phe
20

<210> 1269

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1269

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met
1 5 10 15

Ser Cys Val Lys Val Lys Phe
20

<210> 1270

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1270

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Lys Lys Phe

20

<210> 1271

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1271

Ser Arg Tyr Lys Leu Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1272

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1272

Ser Arg Tyr Lys Trp Phe Cys Leu Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1273

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1273

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Leu Val Lys Phe

20

<210> 1274

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1274

Ser Arg Tyr Lys Ser Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1275

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1275

Ser Arg Tyr Lys Trp Ser Cys Gly Met Arg Asp Met Lys Gly Thr Met
1 5 10 15

Ser Cys Val Trp Val Lys Phe
20

<210> 1276

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1276

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met
1 5 10 15

Ser Cys Val Ser Val Lys Phe
20

<210> 1277

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1277

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Ser Lys Phe

20

<210> 1278

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1278

Ser Arg Tyr Pro Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1279

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1279

Ser Arg Tyr Lys Pro Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1280

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1280

Ser Arg Tyr Lys Trp Pro Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1281

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1281

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Pro Trp Val Lys Phe

20

<210> 1282

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1282

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met
1 5 10 15

Ser Cys Val Pro Val Lys Phe
20

<210> 1283

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1283

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met
1 5 10 15

Ser Cys Val Trp Pro Lys Phe
20

<210> 1284

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 1284

Ser Arg Tyr Lys Trp Phe Cys Glu Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1285

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1285

Ser Arg Tyr Lys Trp Phe Cys His Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1286

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1286

Ser Arg Tyr Lys Trp Phe Cys Ile Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1287

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1287

Ser Arg Tyr Lys Trp Phe Cys Val Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1288

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1288

Ser Arg Tyr Lys Trp Phe Cys Tyr Met Arg Asp Met Lys Gly Thr Met

1 5 10 15

Ser Cys Val Trp Val Lys Phe

20

<210> 1289

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (9)..(9)

<223> D-Asp

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1289

Ser Arg Tyr Lys Trp Phe Cys Gly Asp Arg Asp Met Lys Gly Thr Met
1 5 10 15

Ser Cys Val Trp Val Lys Phe
20

<210> 1290

<211> 32

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal Biotinyl

<220><221> MOD_RES

<222> (1)..(1)

<223> Xaa is (13-Amino-4,7,10-trioxa-tridecayl)-succinamic acid

<220><221> DISULFID

<222> (11)..(22)

<223> Cys residues linked via disufide bond

<220><221> MOD_RES

<222> (32)..(32)

<223> C-terminal amidation

<400> 1290

Xaa Ser Gly Ala Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met

1 5 10 15

Lys Gly Thr Met Ser Cys Val Trp Val Lys Phe Arg Tyr Asp Thr Ser

20 25 30

<210> 1291

<211> 24

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal Biotinyl

<220><221> MOD_RES

<222> (1)..(1)

<223> Xaa is (13-Amino-4,7,10-trioxa-tridecayl)-succinamic acid

<220><221> DISULFID

<222> (8)..(19)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (24)..(24)

<223> C-terminal amidation

<400> 1291

Xaa Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr

1 5 10 15

Met Ser Cys Val Trp Val Lys Phe

20

<210> 1292

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1292

Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys Gly Thr Met
1 5 10 15

Ser Cys Val Trp Val Lys Phe
20

<210> 1293

<211> 31

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (31)..(31)

<223> C-terminal amidation

<400> 1293

Ser Gly Gly Arg Lys His Lys His Phe Leu Arg Ser Asn Gly Lys Pro
1 5 10 15

Ser Arg Ala Leu Ser Ser Met His Phe Trp Arg Trp Ser Thr Ser
20 25 30

<210> 1294

<400> 1294

000

<210> 1295

<400> 1295

000

<210> 1296

<400> 1296

000

<210> 1297

<400

> 1297

000

<210> 1298

<400> 1298

000

<210> 1299

<400> 1299

000

<210> 1300

<400> 1300

000

<210> 1301

<400> 1301

000

<210> 1302

<400> 1302

000

<210> 1303

<400> 1303

000

<210> 1304

<400> 1304

000

<210> 1305

<400> 1305

000

<210> 1306

<400> 1306

000

<210> 1307

<400> 1307

000

<210> 1308

<400> 1308

000

<210> 1309

<400> 1309

000

<210> 1310

<400> 1310

000

<210> 1311

<400> 1311

000

<210> 1312

<400> 1312

000

<210> 1313

<400> 1313

000

<210> 1314

<400> 1314

000

<210> 1315

<400> 1315

000

<210> 1316

<400> 1316

000

<210> 1317

<400> 1317

000

<210> 1318

<400> 1318

000

<210> 1319

<400> 1319

000

<210> 1320

<400> 1320

000

<210> 1321

<400> 1321

000

<210> 1322

<400> 1322

000

<210> 1323

<400> 1323

000

<210> 1324

<400> 1324

000

<210> 1325

<400> 1325

000

<210> 1326

<400> 1326

000

<210> 1327

<400> 1327

000

<210> 1328

<400> 1328

000

<210> 1329

<400> 1329

000

<210> 1330

<400> 1330

000

<210> 1331

<400> 1331

000

<210> 1332

<400> 1332

000

<210> 1333

<400> 1333

000

<210> 1334

<400> 1334

000

<210> 1335

<400> 1335

000

<210> 1336

<400> 1336

000

<210> 1337

<400> 1337

000

<210> 1338

<400> 1338

000

<210> 1339

<400> 1339

000

<210> 1340

<400> 1340

000

<210> 1341

<400> 1341

000

<210> 1342

<400> 1342

000

<210

> 1343

<400> 1343

000

<210> 1344

<400> 1344

000

<210> 1345

<400> 1345

000

<210> 1346

<400> 1346

000

<210> 1347

<400> 1347

000

<210> 1348

<400> 1348

000

<210> 1349

<400> 1349

000

<210> 1350

<400> 1350

000

<210> 1351

<400> 1351

000

<210> 1352

<400> 1352

000

<210> 1353

<400> 1353

000

<210> 1354

<400> 1354

000

<210> 1355

<400> 1355

000

<210> 1356

<400> 1356

000

<210> 1357

<400> 1357

000

<210> 1358

<400> 1358

000

<210> 1359

<400> 1359

000

<210> 1360

<400> 1360

000

<210> 1361

<400> 1361

000

<210> 1362

<400> 1362

000

<210> 1363

<400> 1363

000

<210> 1364

<400> 1364

000

<210> 1365

<400> 1365

000

<210> 1366

<400> 1366

000

<210> 1367

<400> 1367

000

<210> 1368

<400> 1368

000

<210> 1369

<400> 1369

000

<210> 1370

<400> 1370

000

<210> 1371

<400> 1371

000

<210> 1372

<400> 1372

000

<210> 1373

<400

> 1373

000

<210> 1374

<400> 1374

000

<210> 1375

<400> 1375

000

<210> 1376

<400> 1376

000

<210> 1377

<400> 1377

000

<210> 1378

<400> 1378

000

<210> 1379

<400> 1379

000

<210> 1380

<400> 1380

000

<210> 1381

<400> 1381

000

<210> 1382

<400> 1382

000

<210> 1383

<400> 1383

000

<210> 1384

<400> 1384

000

<210> 1385

<400> 1385

000

<210> 1386

<400> 1386

000

<210> 1387

<400> 1387

000

<210> 1388

<400> 1388

000

<210> 1389

<400> 1389

000

<210> 1390

<400> 1390

000

<210> 1391

<400> 1391

000

<210> 1392

<400> 1392

000

<210> 1393

<400> 1393

000

<210> 1394

<400> 1394

000

<210> 1395

<400> 1395

000

<210> 1396

<400> 1396

000

<210> 1397

<400> 1397

000

<210> 1398

<400> 1398

000

<210> 1399

<400> 1399

000

<210> 1400

<400> 1400

000

<210> 1401

<400> 1401

000

<210> 1402

<400> 1402

000

<210> 1403

<400> 1403

000

<210> 1404

<400> 1404

000

<210> 1405

<400> 1405

000

<210> 1406

<400> 1406

000

<210> 1407

<400> 1407

000

<210> 1408

<400> 1408

000

<210> 1409

<400> 1409

000

<210> 1410

<400> 1410

000

<210> 1411

<400> 1411

000

<210> 1412

<400> 1412

000

<210> 1413

<400> 1413

000

<210> 1414

<400> 1414

000

<210> 1415

<400> 1415

000

<210> 1416

<400> 1416

000

<210> 1417

<400> 1417

000

<210> 1418

<400> 1418

000

<210

> 1419

<400> 1419

000

<210> 1420

<400> 1420

000

<210> 1421

<400> 1421

000

<210> 1422

<400> 1422

000

<210> 1423

<400> 1423

000

<210> 1424

<400> 1424

000

<210> 1425

<400> 1425

000

<210> 1426

<400> 1426

000

<210> 1427

<400> 1427

000

<210> 1428

<400> 1428

000

<210> 1429

<400> 1429

000

<210> 1430

<400> 1430

000

<210> 1431

<400> 1431

000

<210> 1432

<400> 1432

000

<210> 1433

<400> 1433

000

<210> 1434

<400> 1434

000

<210> 1435

<400> 1435

000

<210> 1436

<400> 1436

000

<210> 1437

<400> 1437

000

<210> 1438

<400> 1438

000

<210> 1439

<400> 1439

000

<210> 1440

<400> 1440

000

<210> 1441

<400> 1441

000

<210> 1442

<400> 1442

000

<210> 1443

<400> 1443

000

<210> 1444

<400> 1444

000

<210> 1445

<400> 1445

000

<210> 1446

<400> 1446

000

<210> 1447

<400> 1447

000

<210> 1448

<400> 1448

000

<210> 1449

<400

> 1449

000

<210> 1450

<400> 1450

000

<210> 1451

<400> 1451

000

<210> 1452

<400> 1452

000

<210> 1453

<400> 1453

000

<210> 1454

<400> 1454

000

<210> 1455

<400> 1455

000

<210> 1456

<400> 1456

000

<210> 1457

<400> 1457

000

<210> 1458

<400> 1458

000

<210> 1459

<400> 1459

000

<210> 1460

<400> 1460

000

<210> 1461

<400> 1461

000

<210> 1462

<400> 1462

000

<210> 1463

<400> 1463

000

<210> 1464

<400> 1464

000

<210> 1465

<400> 1465

000

<210> 1466

<400> 1466

000

<210> 1467

<400> 1467

000

<210> 1468

<400> 1468

000

<210> 1469

<400> 1469

000

<210> 1470

<400> 1470

000

<210> 1471

<400> 1471

000

<210> 1472

<400> 1472

000

<210> 1473

<400> 1473

000

<210> 1474

<400> 1474

000

<210> 1475

<400> 1475

000

<210> 1476

<400> 1476

000

<210> 1477

<400> 1477

000

<210> 1478

<400> 1478

000

<210> 1479

<400> 1479

000

<210> 1480

<400> 1480

000

<210> 1481

<400> 1481

000

<210> 1482

<400> 1482

000

<210> 1483

<400> 1483

000

<210> 1484

<400> 1484

000

<210> 1485

<400> 1485

000

<210> 1486

<400> 1486

000

<210> 1487

<400> 1487

000

<210> 1488

<400> 1488

000

<210> 1489

<400> 1489

000

<210> 1490

<400> 1490

000

<210> 1491

<400> 1491

000

<210> 1492

<400> 1492

000

<210> 1493

<400> 1493

000

<210> 1494

<400> 1494

000

<210

> 1495

<400> 1495

000

<210> 1496

<400> 1496

000

<210> 1497

<400> 1497

000

<210> 1498

<400> 1498

000

<210> 1499

<400> 1499

000

<210> 1500

<400> 1500

000

<210> 1501

<400> 1501

000

<210> 1502

<400> 1502

000

<210> 1503

<400> 1503

000

<210> 1504

<400> 1504

000

<210> 1505

<400> 1505

000

<210> 1506

<400> 1506

000

<210> 1507

<400> 1507

000

<210> 1508

<400> 1508

000

<210> 1509

<400> 1509

000

<210> 1510

<400> 1510

000

<210> 1511

<400> 1511

000

<210> 1512

<400> 1512

000

<210> 1513

<400> 1513

000

<210> 1514

<400> 1514

000

<210> 1515

<400> 1515

000

<210> 1516

<400> 1516

000

<210> 1517

<400> 1517

000

<210> 1518

<400> 1518

000

<210> 1519

<400> 1519

000

<210> 1520

<400> 1520

000

<210> 1521

<400> 1521

000

<210> 1522

<400> 1522

000

<210> 1523

<400> 1523

000

<210> 1524

<400> 1524

000

<210> 1525

<400

> 1525

000

<210> 1526

<400> 1526

000

<210> 1527

<400> 1527

000

<210> 1528

<400> 1528

000

<210> 1529

<400> 1529

000

<210> 1530

<400> 1530

000

<210> 1531

<400> 1531

000

<210> 1532

<400> 1532

000

<210> 1533

<400> 1533

000

<210> 1534

<400> 1534

000

<210> 1535

<400> 1535

000

<210> 1536

<400> 1536

000

<210> 1537

<400> 1537

000

<210> 1538

<400> 1538

000

<210> 1539

<400> 1539

000

<210> 1540

<400> 1540

000

<210> 1541

<400> 1541

000

<210> 1542

<400> 1542

000

<210> 1543

<400> 1543

000

<210> 1544

<400> 1544

000

<210> 1545

<400> 1545

000

<210> 1546

<400> 1546

000

<210> 1547

<400> 1547

000

<210> 1548

<400> 1548

000

<210> 1549

<400> 1549

000

<210> 1550

<400> 1550

000

<210> 1551

<400> 1551

000

<210> 1552

<400> 1552

000

<210> 1553

<400> 1553

000

<210> 1554

<400> 1554

000

<210> 1555

<400> 1555

000

<210> 1556

<400> 1556

000

<210> 1557

<400> 1557

000

<210> 1558

<400> 1558

000

<210> 1559

<400> 1559

000

<210> 1560

<400> 1560

000

<210> 1561

<400> 1561

000

<210> 1562

<400> 1562

000

<210> 1563

<400> 1563

000

<210> 1564

<400> 1564

000

<210> 1565

<400> 1565

000

<210> 1566

<400> 1566

000

<210> 1567

<400> 1567

000

<210> 1568

<400> 1568

000

<210> 1569

<400> 1569

000

<210> 1570

<400> 1570

000

<210

> 1571

<400> 1571

000

<210> 1572

<400> 1572

000

<210> 1573

<400> 1573

000

<210> 1574

<400> 1574

000

<210> 1575

<400> 1575

000

<210> 1576

<400> 1576

000

<210> 1577

<400> 1577

000

<210> 1578

<400> 1578

000

<210> 1579

<400> 1579

000

<210> 1580

<400> 1580

000

<210> 1581

<400> 1581

000

<210> 1582

<400> 1582

000

<210> 1583

<400> 1583

000

<210> 1584

<400> 1584

000

<210> 1585

<400> 1585

000

<210> 1586

<400> 1586

000

<210> 1587

<400> 1587

000

<210> 1588

<400> 1588

000

<210> 1589

<400> 1589

000

<210> 1590

<400> 1590

000

<210> 1591

<400> 1591

000

<210> 1592

<400> 1592

000

<210> 1593

<400> 1593

000

<210> 1594

<400> 1594

000

<210> 1595

<400> 1595

000

<210> 1596

<400> 1596

000

<210> 1597

<400> 1597

000

<210> 1598

<400> 1598

000

<210> 1599

<400> 1599

000

<210> 1600

<400> 1600

000

<210> 1601

<400

> 1601

000

<210> 1602

<400> 1602

000

<210> 1603

<400> 1603

000

<210> 1604

<400> 1604

000

<210> 1605

<400> 1605

000

<210> 1606

<400> 1606

000

<210> 1607

<400> 1607

000

<210> 1608

<400> 1608

000

<210> 1609

<400> 1609

000

<210> 1610

<400> 1610

000

<210> 1611

<400> 1611

000

<210> 1612

<400> 1612

000

<210> 1613

<400> 1613

000

<210> 1614

<400> 1614

000

<210> 1615

<400> 1615

000

<210> 1616

<400> 1616

000

<210> 1617

<400> 1617

000

<210> 1618

<400> 1618

000

<210> 1619

<400> 1619

000

<210> 1620

<400> 1620

000

<210> 1621

<400> 1621

000

<210> 1622

<400> 1622

000

<210> 1623

<400> 1623

000

<210> 1624

<400> 1624

000

<210> 1625

<400> 1625

000

<210> 1626

<400> 1626

000

<210> 1627

<400> 1627

000

<210> 1628

<400> 1628

000

<210> 1629

<400> 1629

000

<210> 1630

<400> 1630

000

<210> 1631

<400> 1631

000

<210> 1632

<400> 1632

000

<210> 1633

<400> 1633

000

<210> 1634

<400> 1634

000

<210> 1635

<400> 1635

000

<210> 1636

<400> 1636

000

<210> 1637

<400> 1637

000

<210> 1638

<400> 1638

000

<210> 1639

<400> 1639

000

<210> 1640

<400> 1640

000

<210> 1641

<400> 1641

000

<210> 1642

<400> 1642

000

<210> 1643

<400> 1643

000

<210> 1644

<400> 1644

000

<210> 1645

<400> 1645

000

<210> 1646

<400> 1646

000

<210

> 1647

<400> 1647

000

<210> 1648

<400> 1648

000

<210> 1649

<400> 1649

000

<210> 1650

<400> 1650

000

<210> 1651

<400> 1651

000

<210> 1652

<400> 1652

000

<210> 1653

<400> 1653

000

<210> 1654

<400> 1654

000

<210> 1655

<400> 1655

000

<210> 1656

<400> 1656

000

<210> 1657

<400> 1657

000

<210> 1658

<400> 1658

000

<210> 1659

<400> 1659

000

<210> 1660

<400> 1660

000

<210> 1661

<400> 1661

000

<210> 1662

<400> 1662

000

<210> 1663

<400> 1663

000

<210> 1664

<400> 1664

000

<210> 1665

<400> 1665

000

<210> 1666

<400> 1666

000

<210> 1667

<400> 1667

000

<210> 1668

<400> 1668

000

<210> 1669

<400> 1669

000

<210> 1670

<400> 1670

000

<210> 1671

<400> 1671

000

<210> 1672

<400> 1672

000

<210> 1673

<400> 1673

000

<210> 1674

<400> 1674

000

<210> 1675

<400> 1675

000

<210> 1676

<400> 1676

000

<210> 1677

<400

> 1677

000

<210> 1678

<400> 1678

000

<210> 1679

<400> 1679

000

<210> 1680

<400> 1680

000

<210> 1681

<400> 1681

000

<210> 1682

<400> 1682

000

<210> 1683

<400> 1683

000

<210> 1684

<400> 1684

000

<210> 1685

<400> 1685

000

<210> 1686

<400> 1686

000

<210> 1687

<400> 1687

000

<210> 1688

<400> 1688

000

<210> 1689

<400> 1689

000

<210> 1690

<400> 1690

000

<210> 1691

<400> 1691

000

<210> 1692

<400> 1692

000

<210> 1693

<400> 1693

000

<210> 1694

<400> 1694

000

<210> 1695

<400> 1695

000

<210> 1696

<400> 1696

000

<210> 1697

<400> 1697

000

<210> 1698

<400> 1698

000

<210> 1699

<400> 1699

000

<210> 1700

<400> 1700

000

<210> 1701

<400> 1701

000

<210> 1702

<400> 1702

000

<210> 1703

<400> 1703

000

<210> 1704

<400> 1704

000

<210> 1705

<400> 1705

000

<210> 1706

<400> 1706

000

<210> 1707

<400> 1707

000

<210> 1708

<400> 1708

000

<210> 1709

<400> 1709

000

<210> 1710

<400> 1710

000

<210> 1711

<400> 1711

000

<210> 1712

<400> 1712

000

<210> 1713

<400> 1713

000

<210> 1714

<400> 1714

000

<210> 1715

<400> 1715

000

<210> 1716

<400> 1716

000

<210> 1717

<400> 1717

000

<210> 1718

<400> 1718

000

<210> 1719

<400> 1719

000

<210> 1720

<400> 1720

000

<210> 1721

<400> 1721

000

<210> 1722

<400> 1722

000

<210

> 1723

<400> 1723

000

<210> 1724

<400> 1724

000

<210> 1725

<400> 1725

000

<210> 1726

<400> 1726

000

<210> 1727

<400> 1727

000

<210> 1728

<400> 1728

000

<210> 1729

<400> 1729

000

<210> 1730

<400> 1730

000

<210> 1731

<400> 1731

000

<210> 1732

<400> 1732

000

<210> 1733

<400> 1733

000

<210> 1734

<400> 1734

000

<210> 1735

<400> 1735

000

<210> 1736

<400> 1736

000

<210> 1737

<400> 1737

000

<210> 1738

<400> 1738

000

<210> 1739

<400> 1739

000

<210> 1740

<400> 1740

000

<210> 1741

<400> 1741

000

<210> 1742

<400> 1742

000

<210> 1743

<400> 1743

000

<210> 1744

<400> 1744

000

<210> 1745

<400> 1745

000

<210> 1746

<400> 1746

000

<210> 1747

<400> 1747

000

<210> 1748

<400> 1748

000

<210> 1749

<400> 1749

000

<210> 1750

<400> 1750

000

<210> 1751

<400> 1751

000

<210> 1752

<400> 1752

000

<210> 1753

<400

> 1753

000

<210> 1754

<400> 1754

000

<210> 1755

<400> 1755

000

<210> 1756

<400> 1756

000

<210> 1757

<400> 1757

000

<210> 1758

<400> 1758

000

<210> 1759

<400> 1759

000

<210> 1760

<400> 1760

000

<210> 1761

<400> 1761

000

<210> 1762

<400> 1762

000

<210> 1763

<400> 1763

000

<210> 1764

<400> 1764

000

<210> 1765

<400> 1765

000

<210> 1766

<400> 1766

000

<210> 1767

<400> 1767

000

<210> 1768

<400> 1768

000

<210> 1769

<400> 1769

000

<210> 1770

<400> 1770

000

<210> 1771

<400> 1771

000

<210> 1772

<400> 1772

000

<210> 1773

<400> 1773

000

<210> 1774

<400> 1774

000

<210> 1775

<400> 1775

000

<210> 1776

<400> 1776

000

<210> 1777

<400> 1777

000

<210> 1778

<400> 1778

000

<210> 1779

<400> 1779

000

<210> 1780

<400> 1780

000

<210> 1781

<400> 1781

000

<210> 1782

<400> 1782

000

<210> 1783

<400> 1783

000

<210> 1784

<400> 1784

000

<210> 1785

<400> 1785

000

<210> 1786

<400> 1786

000

<210> 1787

<400> 1787

000

<210> 1788

<400> 1788

000

<210> 1789

<400> 1789

000

<210> 1790

<400> 1790

000

<210> 1791

<400> 1791

000

<210> 1792

<400> 1792

000

<210> 1793

<400> 1793

000

<210> 1794

<400> 1794

000

<210> 1795

<400> 1795

000

<210> 1796

<400> 1796

000

<210> 1797

<400> 1797

000

<210> 1798

<400> 1798

000

<210

> 1799

<400> 1799

000

<210> 1800

<400> 1800

000

<210> 1801

<400> 1801

000

<210> 1802

<400> 1802

000

<210> 1803

<400> 1803

000

<210> 1804

<400> 1804

000

<210> 1805

<400> 1805

000

<210> 1806

<400> 1806

000

<210> 1807

<400> 1807

000

<210> 1808

<400> 1808

000

<210> 1809

<400> 1809

000

<210> 1810

<400> 1810

000

<210> 1811

<400> 1811

000

<210> 1812

<400> 1812

000

<210> 1813

<400> 1813

000

<210> 1814

<400> 1814

000

<210> 1815

<400> 1815

000

<210> 1816

<400> 1816

000

<210> 1817

<400> 1817

000

<210> 1818

<400> 1818

000

<210> 1819

<400> 1819

000

<210> 1820

<400> 1820

000

<210> 1821

<400> 1821

000

<210> 1822

<400> 1822

000

<210> 1823

<400> 1823

000

<210> 1824

<400> 1824

000

<210> 1825

<400> 1825

000

<210> 1826

<400> 1826

000

<210> 1827

<400> 1827

000

<210> 1828

<400> 1828

000

<210> 1829

<400

> 1829

000

<210> 1830

<400> 1830

000

<210> 1831

<400> 1831

000

<210> 1832

<400> 1832

000

<210> 1833

<400> 1833

000

<210> 1834

<400> 1834

000

<210> 1835

<400> 1835

000

<210> 1836

<400> 1836

000

<210> 1837

<400> 1837

000

<210> 1838

<400> 1838

000

<210> 1839

<400> 1839

000

<210> 1840

<400> 1840

000

<210> 1841

<400> 1841

000

<210> 1842

<400> 1842

000

<210> 1843

<400> 1843

000

<210> 1844

<400> 1844

000

<210> 1845

<400> 1845

000

<210> 1846

<400> 1846

000

<210> 1847

<400> 1847

000

<210> 1848

<400> 1848

000

<210> 1849

<400> 1849

000

<210> 1850

<400> 1850

000

<210> 1851

<400> 1851

000

<210> 1852

<400> 1852

000

<210> 1853

<400> 1853

000

<210> 1854

<400> 1854

000

<210> 1855

<400> 1855

000

<210> 1856

<400> 1856

000

<210> 1857

<400> 1857

000

<210> 1858

<400> 1858

000

<210> 1859

<400> 1859

000

<210> 1860

<400> 1860

000

<210> 1861

<400> 1861

000

<210> 1862

<400> 1862

000

<210> 1863

<400> 1863

000

<210> 1864

<400> 1864

000

<210> 1865

<400> 1865

000

<210> 1866

<400> 1866

000

<210> 1867

<400> 1867

000

<210> 1868

<400> 1868

000

<210> 1869

<400> 1869

000

<210> 1870

<400> 1870

000

<210> 1871

<400> 1871

000

<210> 1872

<400> 1872

000

<210> 1873

<400> 1873

000

<210> 1874

<400> 1874

000

<210

> 1875

<400> 1875

000

<210> 1876

<400> 1876

000

<210> 1877

<400> 1877

000

<210> 1878

<400> 1878

000

<210> 1879

<400> 1879

000

<210> 1880

<400> 1880

000

<210> 1881

<400> 1881

000

<210> 1882

<400> 1882

000

<210> 1883

<400> 1883

000

<210> 1884

<400> 1884

000

<210> 1885

<400> 1885

000

<210> 1886

<400> 1886

000

<210> 1887

<400> 1887

000

<210> 1888

<400> 1888

000

<210> 1889

<400> 1889

000

<210> 1890

<400> 1890

000

<210> 1891

<400> 1891

000

<210> 1892

<400> 1892

000

<210> 1893

<400> 1893

000

<210> 1894

<400> 1894

000

<210> 1895

<400> 1895

000

<210> 1896

<400> 1896

000

<210> 1897

<400> 1897

000

<210> 1898

<400> 1898

000

<210> 1899

<400> 1899

000

<210> 1900

<400> 1900

000

<210> 1901

<400> 1901

000

<210> 1902

<400> 1902

000

<210> 1903

<400> 1903

000

<210> 1904

<400> 1904

000

<210> 1905

<400

> 1905

000

<210> 1906

<400> 1906

000

<210> 1907

<400> 1907

000

<210> 1908

<400> 1908

000

<210> 1909

<400> 1909

000

<210> 1910

<400> 1910

000

<210> 1911

<400> 1911

000

<210> 1912

<400> 1912

000

<210> 1913

<400> 1913

000

<210> 1914

<400> 1914

000

<210> 1915

<400> 1915

000

<210> 1916

<400> 1916

000

<210> 1917

<400> 1917

000

<210> 1918

<400> 1918

000

<210> 1919

<400> 1919

000

<210> 1920

<400> 1920

000

<210> 1921

<400> 1921

000

<210> 1922

<400> 1922

000

<210> 1923

<400> 1923

000

<210> 1924

<400> 1924

000

<210> 1925

<400> 1925

000

<210> 1926

<400> 1926

000

<210> 1927

<400> 1927

000

<210> 1928

<400> 1928

000

<210> 1929

<400> 1929

000

<210> 1930

<400> 1930

000

<210> 1931

<400> 1931

000

<210> 1932

<400> 1932

000

<210> 1933

<400> 1933

000

<210> 1934

<400> 1934

000

<210> 1935

<400> 1935

000

<210> 1936

<400> 1936

000

<210> 1937

<400> 1937

000

<210> 1938

<400> 1938

000

<210> 1939

<400> 1939

000

<210> 1940

<400> 1940

000

<210> 1941

<400> 1941

000

<210> 1942

<400> 1942

000

<210> 1943

<400> 1943

000

<210> 1944

<400> 1944

000

<210> 1945

<400> 1945

000

<210> 1946

<400> 1946

000

<210> 1947

<400> 1947

000

<210> 1948

<400> 1948

000

<210> 1949

<400> 1949

000

<210> 1950

<400> 1950

000

<210

> 1951

<400> 1951

000

<210> 1952

<400> 1952

000

<210> 1953

<400> 1953

000

<210> 1954

<400> 1954

000

<210> 1955

<400> 1955

000

<210> 1956

<400> 1956

000

<210> 1957

<400> 1957

000

<210> 1958

<400> 1958

000

<210> 1959

<400> 1959

000

<210> 1960

<400> 1960

000

<210> 1961

<400> 1961

000

<210> 1962

<400> 1962

000

<210> 1963

<400> 1963

000

<210> 1964

<400> 1964

000

<210> 1965

<400> 1965

000

<210> 1966

<400> 1966

000

<210> 1967

<400> 1967

000

<210> 1968

<400> 1968

000

<210> 1969

<400> 1969

000

<210> 1970

<400> 1970

000

<210> 1971

<400> 1971

000

<210> 1972

<400> 1972

000

<210> 1973

<400> 1973

000

<210> 1974

<400> 1974

000

<210> 1975

<400> 1975

000

<210> 1976

<400> 1976

000

<210> 1977

<400> 1977

000

<210> 1978

<400> 1978

000

<210> 1979

<400> 1979

000

<210> 1980

<400> 1980

000

<210> 1981

<400

> 1981

000

<210> 1982

<400> 1982

000

<210> 1983

<400> 1983

000

<210> 1984

<400> 1984

000

<210> 1985

<400> 1985

000

<210> 1986

<400> 1986

000

<210> 1987

<400> 1987

000

<210> 1988

<400> 1988

000

<210> 1989

<400> 1989

000

<210> 1990

<400> 1990

000

<210> 1991

<400> 1991

000

<210> 1992

<400> 1992

000

<210> 1993

<400> 1993

000

<210> 1994

<400> 1994

000

<210> 1995

<400> 1995

000

<210> 1996

<400> 1996

000

<210> 1997

<400> 1997

000

<210> 1998

<400> 1998

000

<210> 1999

<400> 1999

000

<210> 2000

<400> 2000

000

<210> 2001

<211> 31

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (31)..(31)

<223> C-terminal amidation

<400> 2001

Ser Gly Tyr Ala Ser Phe Ala Leu Ala Val Gln Leu His Val Ser Lys

1 5 10 15

Arg Ser Lys Glu Met Ala Leu Ala Arg Leu Tyr Tyr Lys Thr Ser

20 25 30

<210> 2002

<211> 31

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (31)..(31)

<223> C-terminal amidation

<400> 2002

Ser Gly Tyr Ala Ser Phe Pro Leu Ala Val Gln Leu His Val Ser Lys

1 5 10 15

Arg Ser Lys Glu Met Ala Leu Ala Arg Leu Tyr Tyr Lys Thr Ser

20 25 30

<210> 2003

<211> 35

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (35)..(35)

<223> C-terminal amidation

<400> 2003

Lys Lys Ser Gly Tyr Ala Ser Phe Pro Leu Ala Val Gln Leu His Val
1 5 10 15

Ser Lys Arg Ser Lys Glu Met Ala Leu Ala Arg Leu Tyr Tyr Lys Thr
20 25 30

Ser Lys Lys
35

<210> 2004

<211> 31

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (31)..(31)

<223> C-terminal amidation

<400> 2004

Ala Gly Tyr Ala Ser Phe Pro Leu Ala Val Gln Leu His Val Ser Lys
1 5 10 15

Arg Ser Lys Glu Met Ala Leu Ala Arg Leu Tyr Tyr Lys Thr Ser
20 25 30

<210> 2005

<211> 31

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (31)..(31)

<223> C-terminal amidation

<400> 2005

Ser Ala Tyr Ala Ser Phe Pro Leu Ala Val Gln Leu His Val Ser Lys

1 5 10 15

Arg Ser Lys Glu Met Ala Leu Ala Arg Leu Tyr Tyr Lys Thr Ser

20 25 30

<210> 2006

<211> 31

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (31)..(31)

<223> C-terminal amidation

<400> 2006

Ser Gly Tyr Ala Ala Phe Pro Leu Ala Val Gln Leu His Val Ser Lys

1 5 10 15

Arg Ser Lys Glu Met Ala Leu Ala Arg Leu Tyr Tyr Lys Thr Ser

20 25 30

<210> 2007

<211> 31

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (31)..(31)

<223> C-terminal amidation

<400> 2007

Ser Gly Tyr Ala Ser Phe Pro Leu Ala Val Ala Leu His Val Ser Lys
1 5 10 15

Arg Ser Lys Glu Met Ala Leu Ala Arg Leu Tyr Tyr Lys Thr Ser
20 25 30

<210> 2008

<211> 31

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (31)..(31)

<223> C-terminal amidation

<400> 2008

Ser Gly Tyr Ala Ser Phe Pro Leu Ala Val Gln Leu His Val Ala Lys
1 5 10 15

Arg Ser Lys Glu Met Ala Leu Ala Arg Leu Tyr Tyr Lys Thr Ser
20 25 30

<210> 2009

<211> 31

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (31)..(31)

<223> C-terminal amidation

<400> 2009

Ser Gly Tyr Ala Ser Phe Pro Leu Ala Val Gln Leu His Val Ser Lys
1 5 10 15

Arg Ala Lys Glu Met Ala Leu Ala Arg Leu Tyr Tyr Lys Thr Ser
20 25 30

<210> 2010

<211> 31

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (31)..(31)

<223> C-terminal amidation

<400> 2010

Ser Gly Tyr Ala Ser Phe Pro Leu Ala Val Gln Leu His Val Ser Lys
1 5 10 15

Arg Ser Ala Glu Met Ala Leu Ala Arg Leu Tyr Tyr Lys Thr Ser
20 25 30

<210> 2011

<211> 31

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (31)..(31)

<223> C-terminal amidation

<400> 2011

Ser Gly Tyr Ala Ser Phe Pro Leu Ala Val Gln Leu His Val Ser Lys
1 5 10 15

Arg Ser Lys Glu Met Ala Leu Ala Ala Leu Tyr Tyr Lys Thr Ser
20 25 30

<210> 2012
<211> 31
<212> PRT
<213> Artificial Sequence
<220><223> Synthetic peptide
<220><221> MOD_RES
<222> (1)..(1)
<223> N-terminal acetylation
<220><221> MOD_RES
<222> (31)..(31)
<223> C-terminal amidation
<400> 2012
Ser Gly Tyr Ala Ser Phe Pro Leu Ala Val Gln Leu His Val Ser Lys
1 5 10 15

Arg Ser Lys Glu Met Ala Leu Ala Arg Leu Tyr Tyr Ala Thr Ser
20 25 30

<210> 2013
<211> 31
<212> PRT
<213> Artificial Sequence
<220><223> Synthetic peptide
<220><221> MOD_RES
<222> (1)..(1)
<223> N-terminal acetylation
<220><221> MOD_RES
<222> (31)..(31)
<223> C-terminal amidation
<400> 2013
Ser Gly Tyr Ala Ser Phe Pro Leu Ala Val Gln Leu His Val Ser Lys

1 5 10 15

Arg Ser Lys Glu Met Ala Leu Ala Arg Leu Tyr Tyr Lys Ala Ser
20 25 30

<210> 2014

<211> 31

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (31)..(31)

<223> C-terminal amidation

<400> 2014

Ser Gly Tyr Ala Ser Phe Pro Leu Ala Val Gln Leu His Val Ser Lys
1 5 10 15

Arg Ser Lys Glu Met Ala Leu Ala Arg Leu Tyr Tyr Lys Thr Ala
20 25 30

<210> 2015

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2015

Gly Tyr Ala Ser Phe Pro Leu Ala Val Gln Leu His Val Ala Lys Arg

1 5 10 15

Ser Lys Glu Met Ala
20

<210> 2016

<211> 32

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (32)..(32)

<223> C-terminal amidation

<400> 2016

Lys Lys Ala Ser Phe Pro Leu Ala Val Gln Leu His Val Ser Lys Arg
1 5 10 15
Ser Lys Glu Met Ala Leu Ala Arg Leu Tyr Tyr Lys Thr Ser Lys Lys
20 25 30

<210> 2017

<211> 25

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (25)..(25)

<223> C-terminal amidation

<400> 2017

Ala Ser Phe Pro Leu Ala Val Gln Leu His Val Ser Lys Arg Ser Lys
1 5 10 15

Glu Met Ala Leu Ala Arg Leu Tyr Tyr

20 25

<210> 2018

<211> 31

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (31)..(31)

<223> C-terminal amidation

<400> 2018

Ser Gly Tyr Ala Ser Phe Pro Ala Ala Val Gln Leu His Val Ser Lys

1 5 10 15

Arg Ser Lys Glu Met Ala Leu Ala Arg Leu Tyr Tyr Lys Thr Ser

20 25 30

<210> 2019

<211> 31

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (31)..(31)

<223> C-terminal amidation

<400> 2019

Ser Gly Tyr Ala Ser Phe Pro Leu Ala Val Gln Ala His Val Ser Lys

1 5 10 15

Arg Ser Lys Glu Met Ala Leu Ala Arg Leu Tyr Tyr Lys Thr Ser

20 25 30

<210> 2020

<211> 31

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (31)..(31)

<223> C-terminal amidation

<400> 2020

Ser Gly Tyr Ala Ser Phe Pro Leu Ala Val Gln Leu His Val Ser Lys

1 5 10 15

Arg Ser Lys Ala Met Ala Leu Ala Arg Leu Tyr Tyr Lys Thr Ser

20 25 30

<210> 2021

<211> 31

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (31)..(31)

<223> C-terminal amidation

<400> 2021

Ser Gly Tyr Ala Ser Phe Pro Leu Ala Val Gln Leu His Val Ser Lys

1 5 10 15

Arg Ser Lys Glu Met Ala Leu Ala Arg Ala Tyr Tyr Lys Thr Ser

20 25 30

<210> 2022

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2022

Gly Tyr Ala Ser Phe Pro Leu Ala Val Gln Leu His Val Met Lys Arg

1 5 10 15

Ser Lys Glu Met Ala

20

<210> 2023

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223>

N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2023

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2024

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2024

Ala Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2025

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2025

Gly Tyr Ala Ala Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2026

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2026

Gly Tyr Ala Ser Phe Pro Trp Ala Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2027

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2027

Gly Tyr Ala Ser Phe Pro Trp Phe Val Ala Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2028

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2028

Cys Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2029

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223>

N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2029

Gly Cys Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2030

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2030

Gly Tyr Cys Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2031

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2031

Gly Tyr Ala Cys Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2032

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2032

Gly Tyr Ala Ser Cys Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2033

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2033

Gly Tyr Ala Ser Phe Pro Cys Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2034

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2034

Gly Tyr Ala Ser Phe Pro Trp Cys Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2035

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223>

N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2035

Gly Tyr Ala Ser Phe Pro Trp Phe Cys Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2036

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2036

Gly Tyr Ala Ser Phe Pro Trp Phe Val Cys Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2037

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2037

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Cys His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2038

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2038

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val Cys Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2039

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2039

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Cys Trp Glu Met Ala

20

<210> 2040

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2040

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg
1 5 10 15

Ser Cys Glu Met Ala
20

<210> 2041

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223>

N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2041

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg
1 5 10 15

Ser Trp Cys Met Ala
20

<210> 2042

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2042

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Cys Ala

20

<210> 2043

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2043

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Cys

20

<210> 2044

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2044

Asp Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2045

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2045

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val Phe Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2046

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2046

Gly Tyr Gly Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2047

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223>

N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2047

Gly Tyr Ala Gly Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2048

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2048

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Gly Trp Glu Met Ala

20

<210> 2049

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2049

Gly Tyr His Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2050

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2050

Gly Tyr Ala His Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2051

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2051

Gly Tyr Ala Ser His Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2052

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2052

Gly Tyr Ala Ser Phe Pro Trp His Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2053

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223>

N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2053

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp His Met Ala

20

<210> 2054

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2054

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met His

20

<210> 2055

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2055

Gly Tyr Ile Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2056

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2056

Gly Tyr Ala Ile Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2057

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2057

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Ile His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2058

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2058

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val Ile Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2059

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223>

N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2059

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ile Trp Glu Met Ala

20

<210> 2060

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2060

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Ile Glu Met Ala

20

<210> 2061

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2061

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ile

20

<210> 2062

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2062

Lys Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2063

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2063

Gly Lys Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2064

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2064

Gly Tyr Lys Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2065

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223>

N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2065

Gly Tyr Ala Lys Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2066

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2066

Gly Tyr Ala Ser Lys Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2067

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2067

Gly Tyr Ala Ser Phe Pro Trp Lys Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2068

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2068

Gly Tyr Ala Ser Phe Pro Trp Phe Val Lys Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2069

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2069

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Lys His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2070

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2070

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Lys His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2071

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223>

N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2071

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Lys Trp Glu Met Ala

20

<210> 2072

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2072

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Lys Met Ala

20

<210> 2073

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2073

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Lys

20

<210> 2074

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2074

Leu Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2075

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2075

Gly Tyr Leu Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2076

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2076

Gly Tyr Ala Leu Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2077

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223>

N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2077

Gly Tyr Ala Ser Phe Pro Trp Phe Val Leu Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2078

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2078

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Leu Trp Glu Met Ala

20

<210> 2079

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2079

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Leu

20

<210> 2080

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2080

Met Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2081

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2081

Gly Tyr Met Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2082

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2082

Gly Tyr Ala Met Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2083

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223>

N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2083

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Met His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2084

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2084

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Met

20

<210> 2085

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2085

Asn Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2086

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2086

Gly Tyr Ala Asn Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2087

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2087

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Asn Trp Glu Met Ala

20

<210> 2088

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2088

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Asn

20

<210> 2089

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223>

N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2089

Pro Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2090

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2090

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Gln Trp Glu Met Ala

20

<210> 2091

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2091

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Gln

20

<210> 2092

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2092

Arg Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2093

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2093

Gly Arg Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2094

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2094

Gly Tyr Arg Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg
1 5 10 15

Ser Trp Glu Met Ala
20

<210> 2095

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223>

N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2095

Gly Tyr Ala Arg Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg
1 5 10 15

Ser Trp Glu Met Ala
20

<210> 2096

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2096

Gly Tyr Ala Ser Arg Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2097

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2097

Gly Tyr Ala Ser Phe Pro Arg Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2098

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2098

Gly Tyr Ala Ser Phe Pro Trp Arg Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2099

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2099

Gly Tyr Ala Ser Phe Pro Trp Phe Arg Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2100

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2100

Gly Tyr Ala Ser Phe Pro Trp Phe Val Arg Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2101

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223>

N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2101

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Arg His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2102

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2102

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Arg His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2103

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2103

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val Arg Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2104

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2104

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Arg Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2105

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2105

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Arg Trp Glu Met Ala

20

<210> 2106

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2106

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Arg Glu Met Ala

20

<210> 2107

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223>

N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2107

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Arg Met Ala

20

<210> 2108

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2108

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Arg

20

<210> 2109

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2109

Ser Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2110

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2110

Gly Tyr Ser Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2111

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2111

Gly Tyr Ala Ser Phe Pro Trp Phe Val Ser Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2112

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2112

Thr Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2113

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223>

N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2113

Gly Tyr Thr Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2114

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2114

Gly Tyr Ala Thr Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2115

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2115

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Thr Trp Glu Met Ala

20

<210> 2116

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2116

Gly Tyr Ala Ser Phe Pro Trp Val Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2117

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2117

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Val His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2118

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2118

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Val Trp Glu Met Ala

20

<210> 2119

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223>

N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2119

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Val

20

<210> 2120

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2120

Gly Trp Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2121

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2121

Gly Tyr Trp Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2122

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2122

Gly Tyr Ala Ser Trp Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2123

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2123

Gly Tyr Ala Ser Phe Pro Trp Trp Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2124

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2124

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Trp His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2125

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223>

N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 2125

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Trp

20

<210> 2126

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2126

Gly Tyr Ala Ser Phe Pro Trp Tyr Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2127

<211> 30

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (30)..(30)

<223> C-terminal amidation

<400> 2127

Met Lys Ser Arg Ser Leu Gly Leu Ala Tyr Phe Ala Lys His Ser Ser

1 5 10 15

Leu Glu Val Leu Gln Thr Arg Lys Val Ala Ala Pro Tyr Tyr

20 25 30

<210> 2128

<211> 29

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (29)..(29)

<223> C-terminal amidation

<400> 2128

Lys Lys Ser Gly Tyr Ala Ser Phe Pro Leu Ala Val Gln Leu His Val

1 5 10 15

Ser Lys Arg Ser Lys Glu Met Ala Leu Ala Arg Lys Lys

20 25

<210> 2129

<211> 29

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (29)..(29)

<223> C-terminal amidation

<400> 2129

Lys Lys Pro Leu Ala Val Gln Leu His Val Ser Lys Arg Ser Lys Glu

1 5 10 15

Met Ala Leu Ala Arg Leu Tyr Tyr Lys Thr Ser Lys Lys

20 25

<210> 2130

<211> 24

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (24)..(24)

<223> C-terminal amidation

<400> 2130

Ala Ser Phe Pro Leu Ala Val Gln Leu His Val Ser Lys Arg Ser Lys

1 5 10 15

Glu Met Ala Leu Ala Arg Leu Tyr

20

<210> 2131

<211> 31

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (31)..(31)

<223> C-terminal amidation

<400> 2131

Ser Gly Ala Ala Ser Phe Pro Leu Ala Val Gln Leu His Val Ser Lys

1 5 10 15

Arg Ser Lys Glu Met Ala Leu Ala Arg Leu Tyr Tyr Lys Thr Ser

20 25 30

<210> 2132

<211> 31

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (31)..(31)

<223> C-terminal amidation

<400> 2132

Ser Gly Tyr Ala Ser Ala Pro Leu Ala Val Gln Leu His Val Ser Lys
1 5 10 15

Arg Ser Lys Glu Met Ala Leu Ala Arg Leu Tyr Tyr Lys Thr Ser
20 25 30

<210> 2133

<211> 31

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (31)..(31)

<223> C-terminal amidation

<400> 2133

Ser Gly Tyr Ala Ser Phe Pro Leu Ala Ala Gln Leu His Val Ser Lys
1 5 10 15

Arg Ser Lys Glu Met Ala Leu Ala Arg Leu Tyr Tyr Lys Thr Ser
20 25 30

<210> 2134

<211> 31

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (31)..(31)

<223> C-terminal amidation

<400> 2134

Ser Gly Tyr Ala Ser Phe Pro Leu Ala Val Gln Leu Ala Val Ser Lys
1 5 10 15

Arg Ser Lys Glu Met Ala Leu Ala Arg Leu Tyr Tyr Lys Thr Ser
20 25 30

<210> 2135

<211> 31

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (31)..(31)

<223> C-terminal amidation

<400> 2135

Ser Gly Tyr Ala Ser Phe Pro Leu Ala Val Gln Leu His Ala Ser Lys
1 5 10 15

Arg Ser Lys Glu Met Ala Leu Ala Arg Leu Tyr Tyr Lys Thr Ser
20 25 30

<210> 2136

<211> 31

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (31)..(31)

<223> C-terminal amidation

<400> 2136

Ser Gly Tyr Ala Ser Phe Pro Leu Ala Val Gln Leu His Val Ser Ala
1 5 10 15

Arg Ser Lys Glu Met Ala Leu Ala Arg Leu Tyr Tyr Lys Thr Ser
20 25 30

<210> 2137

<211> 31

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (31)..(31)

<223> C-terminal amidation

<400> 2137

Ser Gly Tyr Ala Ser Phe Pro Leu Ala Val Gln Leu His Val Ser Lys
1 5 10 15

Ala Ser Lys Glu Met Ala Leu Ala Arg Leu Tyr Tyr Lys Thr Ser
20 25 30

<210> 2138

<211> 31

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (31)..(31)

<223> C-terminal amidation

<400> 2138

Ser Gly Tyr Ala Ser Phe Pro Leu Ala Val Gln Leu His Val Ser Lys
1 5 10 15

Arg Ser Lys Glu Ala Ala Leu Ala Arg Leu Tyr Tyr Lys Thr Ser
20 25 30

<210> 2139

<211> 31

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (31)..(31)

<223> C-terminal amidation

<400> 2139

Ser Gly Tyr Ala Ser Phe Pro Leu Ala Val Gln Leu His Val Ser Lys
1 5 10 15

Arg Ser Lys Glu Met Ala Ala Ala Arg Leu Tyr Tyr Lys Thr Ser
20 25 30

<210> 2140

<211> 31

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (31)..(31)

<223> C-terminal amidation

<400> 2140

Ser Gly Tyr Ala Ser Phe Pro Leu Ala Val Gln Leu His Val Ser Lys
1 5 10 15

Arg Ser Lys Glu Met Ala Leu Ala Arg Leu Ala Tyr Lys Thr Ser
20 25 30

<210> 2141

<211> 31

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (31)..(31)

<223> C-terminal amidation

<400> 2141

Ser Gly Tyr Ala Ser Phe Pro Leu Ala Val Gln Leu His Val Ser Lys
1 5 10 15

Arg Ser Lys Glu Met Ala Leu Ala Arg Leu Tyr Ala Lys Thr Ser
20 25 30

<210> 2142

<211> 33

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<400> 2142

Gly Ser Ser Gly Tyr Ala Ser Phe Pro Leu Ala Val Gln Leu His Val
1 5 10 15
Ser Lys Arg Ser Lys Glu Met Ala Leu Ala Arg Leu Tyr Tyr Lys Thr
20 25 30
Ser

<210> 2143

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2143

Gly Tyr Trp Ser Phe Pro His Ala Val Trp His His Val Ser Lys Arg
1 5 10 15
Ser Lys Glu Met Ala
20

<210> 2144

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222>

(21)..(21)

<223> C-terminal amidation

<400> 2144

Gly Tyr Ala Ser Phe Trp Gln Ala Val Gln Leu His Val Trp Lys Arg

1 5 10 15

Ser Lys Glu Ile Ala

20

<210> 2145

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2145

Gly Tyr Ala Ser Phe Pro Leu Ile Val Trp Leu His Val Ser Lys Arg

1 5 10 15

Ser Lys Glu Met Ala

20

<210> 2146

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2146

Gly Tyr Ala Ser Phe Trp Gln Ala Val Gln Leu His Val Ser Lys Arg

1 5 10 15

Ser Lys Glu Ile Ala

20

<210> 2147

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2147

Gly Tyr Ala Ser Phe Pro Ala Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2148

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2148

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Ala His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2149

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223>

N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2149

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Ala His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2150

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2150

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val Ala Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2151

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2151

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Ala Met Ala

20

<210> 2152

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2152

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Ala Ala

20

<210> 2153

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2153

Gly Tyr Ala Ser Phe Cys Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2154

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2154

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu Cys Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2155

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223>

N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2155

Gly Asp Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2156

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2156

Gly Tyr Asp Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2157

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2157

Gly Tyr Ala Asp Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2158

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2158

Gly Tyr Ala Ser Asp Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2159

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2159

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Asp Met Ala

20

<210> 2160

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2160

Gly Tyr Glu Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2161

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223>

N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2161

Gly Tyr Ala Glu Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2162

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2162

Phe Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2163

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2163

Gly Phe Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2164

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2164

Gly Tyr Phe Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2165

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2165

Gly Tyr Ala Phe Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2166

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2166

Gly Tyr Ala Ser Phe Pro Phe Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2167

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223>

N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2167

Gly Tyr Ala Ser Phe Pro Trp Phe Phe Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2168

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2168

Gly Tyr Ala Ser Phe Pro Trp Phe Val Phe Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2169

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2169

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Phe His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2170

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2170

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Phe

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2171

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2171

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Phe Trp Glu Met Ala

20

<210> 2172

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2172

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Phe Glu Met Ala

20

<210> 2173

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223>

N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2173

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Phe Met Ala

20

<210> 2174

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2174

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Phe Ala

20

<210> 2175

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2175

Gly Tyr Ala Ser Gly Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2176

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2176

Gly Tyr Ala Ser Phe Pro Gly Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2177

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2177

Gly Tyr Ala Ser Phe Pro Trp Gly Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2178

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2178

Gly Tyr Ala Ser Phe Pro Trp Phe Gly Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2179

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223>

N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2179

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gly Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2180

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2180

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Gly His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2181

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2181

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Gly His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2182

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2182

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val Gly Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2183

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2183

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Gly Met Ala

20

<210> 2184

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2184

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Gly Ala

20

<210> 2185

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223>

N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2185

Gly His Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2186

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2186

Gly Tyr Ala Ser Phe Pro His Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2187

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2187

Gly Tyr Ala Ser Phe Pro Trp Phe His Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2188

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2188

Gly Tyr Ala Ser Phe Pro Trp Phe Val His Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2189

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2189

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His His His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2190

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2190

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu His Ala

20

<210> 2191

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223>

N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2191

Ile Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2192

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2192

Gly Tyr Ala Ser Ile Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2193

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2193

Gly Tyr Ala Ser Phe Pro Ile Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2194

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2194

Gly Tyr Ala Ser Phe Pro Trp Phe Ile Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2195

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2195

Gly Tyr Ala Ser Phe Pro Trp Phe Val Ile Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2196

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2196

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu Ile Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2197

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223>

N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2197

Gly Tyr Ala Ser Phe Lys Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2198

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2198

Gly Tyr Ala Ser Phe Pro Lys Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2199

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2199

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu Lys Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2200

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2200

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Lys Glu Met Ala

20

<210> 2201

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2201

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Lys Ala

20

<210> 2202

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2202

Gly Tyr Ala Ser Leu Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2203

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223>

N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2203

Gly Tyr Ala Ser Phe Pro Leu Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2204

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2204

Gly Tyr Ala Ser Phe Pro Trp Leu Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2205

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2205

Gly Tyr Ala Ser Phe Pro Trp Phe Leu Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2206

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2206

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu Leu Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2207

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2207

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Leu His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2208

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2208

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val Leu Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2209

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223>

N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2209

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Leu Glu Met Ala

20

<210> 2210

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2210

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Leu Met Ala

20

<210> 2211

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2211

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Leu Ala

20

<210> 2212

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2212

Gly Met Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2213

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2213

Gly Tyr Ala Ser Met Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2214

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2214

Gly Tyr Ala Ser Phe Pro Trp Met Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2215

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223>

N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2215

Gly Tyr Ala Ser Phe Pro Trp Phe Met Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2216

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2216

Gly Tyr Ala Ser Phe Pro Trp Phe Val Met Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2217

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400>

2217

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Met His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2218

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2218

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val Met Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2219

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2219

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Met Glu Met Ala

20

<210> 2220

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2220

Gly Asn Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2221

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2221

Gly Tyr Asn Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2222

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222>

(21)..(21)

<223> C-terminal amidation

<400> 2222

Gly Tyr Ala Ser Asn Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2223

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2223

Gly Tyr Ala Ser Phe Pro Asn Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2224

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2224

Gly Tyr Ala Ser Phe Pro Trp Asn Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2225

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2225

Gly Tyr Ala Ser Phe Pro Trp Phe Val Asn Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2226

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2226

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Asn His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2227

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223>

N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2227

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val Asn Lys Arg
1 5 10 15

Ser Trp Glu Met Ala
20

<210> 2228

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal N-methyl

<400> 2228

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg
1 5 10 15

Ser Trp Asn Met Ala
20

<210> 2229

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2229

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Asn Ala

20

<210> 2230

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2230

Gly Pro Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2231

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2231

Gly Tyr Pro Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2232

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2232

Gly Tyr Ala Ser Pro Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2233

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223>

N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2233

Gly Tyr Ala Ser Phe Pro Trp Pro Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2234

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2234

Gly Tyr Ala Ser Phe Pro Trp Phe Val Pro Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2235

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2235

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Pro Met Ala

20

<210> 2236

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2236

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Pro

20

<210> 2237

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2237

Gln Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2238

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2238

Gly Tyr Gln Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2239

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223>

N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2239

Gly Tyr Ala Gln Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2240

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2240

Gly Tyr Ala Ser Gln Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2241

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2241

Gly Tyr Ala Ser Phe Pro Trp Gln Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2242

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2242

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Gln His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2243

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2243

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val Gln Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2244

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2244

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Gln Glu Met Ala

20

<210> 2245

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223>

N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2245

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Gln Met Ala

20

<210> 2246

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2246

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Gln Ala

20

<210> 2247

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2247

Gly Tyr Ala Ser Phe Arg Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2248

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2248

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu Arg Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2249

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2249

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Arg Ala

20

<210> 2250

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2250

Gly Ser Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2251

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223>

N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2251

Gly Tyr Ala Ser Ser Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2252

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2252

Gly Tyr Ala Ser Phe Pro Ser Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2253

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2253

Gly Tyr Ala Ser Phe Pro Trp Ser Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2254

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2254

Gly Tyr Ala Ser Phe Pro Trp Phe Ser Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2255

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2255

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Ser His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2256

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2256

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Ser His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2257

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223>

N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2257

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val Ser Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2258

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2258

Gly Thr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2259

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2259

Gly Tyr Ala Ser Thr Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2260

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2260

Gly Tyr Ala Ser Phe Pro Thr Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2261

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2261

Gly Tyr Ala Ser Phe Pro Trp Thr Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2262

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2262

Gly Tyr Ala Ser Phe Pro Trp Phe Thr Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2263

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223>

N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2263

Gly Tyr Ala Ser Phe Pro Trp Phe Val Thr Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2264

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2264

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Thr His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2265

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2265

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val Thr Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2266

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2266

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Thr

20

<210> 2267

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2267

Gly Tyr Ala Val Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2268

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2268

Gly Tyr Ala Ser Val Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2269

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223>

N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2269

Gly Tyr Ala Ser Phe Pro Trp Phe Val Val Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2270

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2270

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val Val Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2271

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2271

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Val Glu Met Ala

20

<210> 2272

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2272

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Val Met Ala

20

<210> 2273

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2273

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Val Ala

20

<210> 2274

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2274

Trp Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2275

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223>

N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2275

Gly Tyr Ala Trp Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2276

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2276

Gly Tyr Ala Ser Phe Pro Trp Phe Trp Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2277

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2277

Gly Tyr Ala Ser Phe Pro Trp Phe Val Trp Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2278

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2278

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Trp His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2279

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2279

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val Trp Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2280

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2280

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Trp Trp Glu Met Ala

20

<210> 2281

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223>

N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2281

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg
1 5 10 15

Ser Trp Trp Met Ala
20

<210> 2282

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2282

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg
1 5 10 15

Ser Trp Glu Trp Ala
20

<210> 2283

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2283

Gly Tyr Tyr Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2284

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 2284

Gly Tyr Ala Tyr Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2285

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acytlation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2285

Gly Tyr Ala Ser Tyr Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2286

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2286

Gly Tyr Ala Ser Phe Pro Tyr Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2287

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223>

N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2287

Gly Tyr Ala Ser Phe Pro Trp Phe Tyr Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2288

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2288

Gly Tyr Ala Ser Phe Pro Trp Phe Val Tyr Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2289

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2289

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Tyr His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2290

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2290

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Tyr His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2291

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2291

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val Tyr Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2292

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2292

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Tyr Trp Glu Met Ala

20

<210> 2293

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223>

N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2293

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Tyr Glu Met Ala

20

<210> 2294

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2294

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Tyr Met Ala

20

<210> 2295

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2295

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Tyr Ala

20

<210> 2296

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2296

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Tyr

20

<210> 2297

<211> 30

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2297

Lys Met Gln Leu Arg Val Tyr Ala Ser Thr Ala His Ser Arg Tyr Leu

1 5 10 15

Leu Gly Ser Ser Leu Phe Pro Lys Tyr Ala Glu Val Lys Ala

20 25 30

<210> 2298

<211> 32

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2298

Lys Lys Ser Gly Tyr Ala Ser Phe Pro Leu Ala Val Gln Leu His Val
1 5 10 15

Ser Lys Arg Ser Lys Glu Met Ala Leu Ala Arg Leu Tyr Tyr Lys Lys
20 25 30

<210> 2299

<211> 26

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2299

Lys Lys Ser Gly Tyr Ala Ser Phe Pro Leu Ala Val Gln Leu His Val
1 5 10 15

Ser Lys Arg Ser Lys Glu Met Ala Lys Lys
20 25

<210> 2300

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2300

Lys Lys Ser Gly Tyr Ala Ser Phe Pro Leu Ala Val Gln Leu His Val

1 5 10 15

Ser Lys Arg Ser Lys Lys Lys

20

<210> 2301

<211> 26

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (26)..(26)

<223> C-terminal amidation

<400> 2301

Lys Lys Val Gln Leu His Val Ser Lys Arg Ser Lys Glu Met Ala Leu

1 5 10 15

Ala Arg Leu Tyr Tyr Lys Thr Ser Lys Lys

20 25

<210> 2302

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 2302

Lys Lys His Val Ser Lys Arg Ser Lys Glu Met Ala Leu Ala Arg Leu

1 5 10 15

Tyr Tyr Lys Thr Ser Lys Lys

20

<210> 2303

<211> 24

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (24)..(24)

<223> C-terminal amidation

<400> 2303

Lys Lys Gly Tyr Ala Ser Phe Pro Leu Ala Val Gln Leu His Val Ser

1 5 10 15

Lys Arg Ser Lys Glu Met Lys Lys

20

<210> 2304

<211> 24

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (24)..(24)

<223> C-terminal amidation

<400> 2304

Lys Lys Tyr Ala Ser Phe Pro Leu Ala Val Gln Leu His Val Ser Lys

1 5 10 15

Arg Ser Lys Glu Met Ala Lys Lys

20

<210> 2305

<211> 24

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (24)..(24)

<223> C-terminal amidation

<400> 2305

Lys Lys Val Gln Leu His Val Ser Lys Arg Ser Lys Glu Met Ala Leu

1 5 10 15

Ala Arg Leu Tyr Tyr Lys Lys Lys

20

<210> 2306

<211> 24

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (24)..(24)

<223> C-terminal amidation

<400> 2306

Lys Lys Gln Leu His Val Ser Lys Arg Ser Lys Glu Met Ala Leu Ala

1 5 10 15

Arg Leu Tyr Tyr Lys Thr Lys Lys

20

<210> 2307

<211> 24

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (24)..(24)

<223> C-terminal amidation

<400> 2307

Lys Lys Leu His Val Ser Lys Arg Ser Lys Glu Met Ala Leu Ala Arg

1 5 10 15

Leu Tyr Tyr Lys Thr Ser Lys Lys

20

<210> 2308

<211> 24

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (24)..(24)

<223> C-terminal amidation

<400> 2308

Lys Lys Ser Gly Tyr Ala Ser Phe Pro Leu Ala Val Gln Leu His Val

1 5 10 15

Ser Lys Arg Ser Lys Glu Lys Lys

20

<210> 2309

<211> 19

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (19)..(19)

<223> C-terminal amidation

<400> 2309

Ala Ser Phe Pro Leu Ala Val Gln Leu His Val Ser Lys Arg Ser Lys

1 5 10 15

Glu Met Ala

<210> 2310

<211> 18

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (18)..(18)

<

223> C-terminal amidation

<400> 2310

Ser Phe Pro Leu Ala Val Gln Leu His Val Ser Lys Arg Ser Lys Glu

1 5 10 15

Met Ala

<210> 2311

<211> 17

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (17)..(17)

<223> C-terminal amidation

<400> 2311

Phe Pro Leu Ala Val Gln Leu His Val Ser Lys Arg Ser Lys Glu Met

1 5 10 15

Ala

<210> 2312

<211> 18

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (18)..(18)

<223> C-terminal amidation

<400> 2312

Ala Ser Phe Pro Leu Ala Val Gln Leu His Val Ser Lys Arg Ser Lys

1 5 10 15

Glu Met

<210> 2313

<211> 17

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (17)..(17)

<223> C-terminal amidation

<400> 2313

Ala Ser Phe Pro Leu Ala Val Gln Leu His Val Ser Lys Arg Ser Lys

1 5 10 15

Glu

<210> 2314

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 2314

Ala Ser Phe Pro Leu Ala Val Gln Leu His Val Ser Lys Arg Ser Lys

1 5 10 15

Glu Met Ala Leu

20

<210> 2315

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2315

Ala Ser Phe Pro Leu Ala Val Gln Leu His Val Ser Lys Arg Ser Lys

1 5 10 15

Glu Met Ala Leu Ala

20

<210> 2316

<211> 22

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (22)..(22)

<223> C-terminal amidation

<400> 2316

Ala Ser Phe Pro Leu Ala Val Gln Leu His Val Ser Lys Arg Ser Lys

1 5 10 15

Glu Met Ala Leu Ala Arg

20

<210> 2317

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 2317

Ala Ser Phe Pro Leu Ala Val Gln Leu His Val Ser Lys Arg Ser Lys

1 5 10 15

Glu Met Ala Leu Ala Arg Leu

20

<210> 2318

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 2318

Tyr Ala Ser Phe Pro Leu Ala Val Gln Leu His Val Ser Lys Arg Ser

1 5 10 15

Lys Glu Met Ala

20

<210> 2319

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2319

Gly Tyr Ala Ser Phe Pro Leu Ala Val Gln Leu His Val Ser Lys Arg

1 5 10 15

Ser Lys Glu Met Ala

20

<210> 2320

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223>

N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2320

Gly Tyr Ala Ser Phe Ala Leu Ser Val Gln Leu His Val Ser Lys Arg

1 5 10 15

Ser Lys Glu Met Ala

20

<210> 2321

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2321

Gly Tyr Ala Ser Phe Ala Leu Ala Val Gln Leu His Val Ala Lys Arg

1 5 10 15

Ser Lys Glu Met Ala

20

<210> 2322

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2322

Gly Tyr Ala Ser Phe Ala Leu Ala Val Gln Leu His Val Met Lys Arg

1 5 10 15

Ser Lys Glu Met Ala

20

<210> 2323

<211> 19

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (19)..(19)

<223> C-terminal amidation

<400> 2323

Phe Pro Leu Ala Val Gln Leu His Val Ser Lys Arg Ser Lys Glu Met

1 5 10 15

Ala Leu Ala

<210> 2324

<211> 14

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (14)..(14)

<223> C-terminal amidation

<400> 2324

Gln Leu His Val Ser Lys Arg Ser Lys Glu Met Ala Leu Ala

1 5 10

<210> 2325

<211> 7

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222

> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (7)..(7)

<223> C-terminal amidation

<400> 2325

Ser Gly Tyr Ala Ser Phe Pro

1 5

<210> 2326

<211> 19

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (19)..(19)

<223> C-terminal amidation

<400> 2326

Leu Ala Val Gln Leu His Val Ser Lys Arg Ser Lys Glu Met Ala Leu

1 5 10 15

Ala Arg Leu

<210> 2327

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2327

Val Tyr Ala Ser Phe Phe Leu Thr Val Gln Leu His Val Ser Lys Arg

1 5 10 15

Ser Lys Glu Met Ala

20

<210> 2328

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2328

Gly Tyr Trp Ser Phe Pro Gln Ala Val Gln Leu His Val Ser Lys Arg

1 5 10 15

Ser Lys Glu Met Ala

20

<210> 2329

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223

> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2329

Gly Tyr Ala Ser Phe Ile Leu Ala Val Gln Leu His Val Ser Lys Arg
1 5 10 15

Ser Lys Glu Met Ala
20

<210> 2330

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2330

Gly Tyr Trp Ser Phe Tyr Leu Ala Val Gln Leu His Val Ser Lys Arg
1 5 10 15

Ser Lys Glu Met Ala
20

<210> 2331

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400>

2331

Ser Tyr Ala Ser Phe Phe Leu Ala Val Gln Leu His Val Ser Lys Arg

1 5 10 15

Ser Glu Glu Met Ala

20

<210> 2332

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2332

Gly Tyr Ala Ser Phe Ile Leu Ala Val Gln Leu His Ile Ile Lys Arg

1 5 10 15

Ser Lys Glu Met Ala

20

<210> 2333

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2333

Gly Met Ala Ser Phe Phe Leu Ala Arg Asp Leu His Trp Ser Lys Val

1 5 10 15

Phe Lys Glu Met Ala

20

<210> 2334

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2334

Glu Tyr Ala Gln Phe Trp Leu Ala Val Gln Leu His Val Ser Lys Arg

1 5 10 15

Ser Lys Glu Met Ala

20

<210> 2335

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2335

Gly Tyr Ala Ser Phe Pro Leu Ile Val Gln Leu His Val Ser Lys Arg

1 5 10 15

Ser Lys Glu Met Ala

20

<210> 2336

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222>

(21)..(21)

<223> C-terminal amidation

<400> 2336

Gly Tyr Ala Ser Phe Pro Ile His Val Gln His His Val Ser Lys Arg

1 5 10 15

Ser Lys Glu Met Ala

20

<210> 2337

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2337

Gly Tyr Ala Ser Phe Ala Leu Met Val Gln Leu His Val Ser Lys Arg

1 5 10 15

Ser Lys Glu Met Ala

20

<210> 2338

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2338

Gly Tyr Ala Ser Phe His Gln Ala Val Gln Arg His Val Ser Lys Arg

1 5 10 15

Ser Lys Glu Met Ala

20

<210> 2339

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2339

Gly Tyr Ala Ser Phe Ala Leu Met Val Gln His His Val Ser Lys Arg

1 5 10 15

Ser Lys Glu Met Ala

20

<210> 2340

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2340

Gly Tyr Ala Ser Phe Ser Leu Ala Val Gln Leu His Val Ser Lys Arg

1 5 10 15

Ser Lys Glu Met Ala

20

<210> 2341

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223>

N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2341

Gly Tyr His Ser Phe Lys Leu Ala Val Gln Leu His Val Ser Lys Arg

1 5 10 15

Ser Lys Glu Ile Ala

20

<210> 2342

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2342

Gly Tyr Ala Ser Tyr Val Leu Ala Val Gln His His Val Ser Trp Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2343

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2343

His Tyr His Ser Leu Pro Lys Gln Val Gln Leu His Val Ser Lys Arg

1 5 10 15

Ser Lys Glu Met Ala

20

<210> 2344

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2344

Gly Tyr Ala Ser Phe Ser Leu Ala Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Tyr Glu Met Ala

20

<210> 2345

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2345

Gly Tyr Ala Ser Phe Glu Leu Leu Val Gln Leu His Val Ser Lys Arg

1 5 10 15

Ser Lys Glu Met Ala

20

<210> 2346

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2346

Ser Tyr Ser Ser Phe Lys Leu Ala Val Gln Leu His Val Ser Lys Arg

1 5 10 15

Ser Lys Glu Met Ala

20

<210> 2347

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223>

N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2347

Gly Tyr Ala Trp Phe Pro Leu Asn Val Trp Leu His Val His Lys Arg

1 5 10 15

Ser His Glu Met Ala

20

<210> 2348

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2348

Gly Tyr Ala Ser Phe Trp Leu Ser Val Gln Thr His Val Ser Lys Arg

1 5 10 15

Ser Lys Glu Met Ala

20

<210> 2349

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2349

Gly Tyr Ala Ser Phe Pro Leu Met Val Gln Leu His Val Ile Lys Arg

1 5 10 15

Ser Lys Glu Met Ala

20

<210> 2350

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2350

Gly Tyr Trp Ser Phe Asn Leu Val Val Gln Leu His Val Ser Lys Arg

1 5 10 15

Ser Lys Glu Met Ala

20

<210> 2351

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2351

Gly Tyr Ala Ser Phe His Leu Ala Val Gln Leu His Val Trp Lys Arg

1 5 10 15

Ser Lys Glu Met Ala

20

<210> 2352

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2352

Gly Tyr Ala Ser Phe Trp Leu Val Val Gln Leu His Val Ser Lys Arg

1 5 10 15

Ser Lys Glu Met Ala

20

<210> 2353

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223>

N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2353

Gly Tyr Trp Ser Phe Pro Leu Ala Val Gln Leu His Val Trp Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2354

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2354

Gly Tyr Ala Ser Phe Pro Trp Tyr Val Gln Leu His Val Ser Lys Arg

1 5 10 15

Ser Lys Glu Met Ala

20

<210> 2355

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2355

Gly Tyr Thr Ser Phe Gln Leu Ala Val Gln Leu His Val Ser Lys Arg

1 5 10 15

Ser Lys Glu Met Ala

20

<210> 2356

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2356

Arg Tyr Ala Ser Phe Pro Leu Ala Val Tyr Leu His Val Thr Lys Arg
1 5 10 15

Ser Lys Glu Met Ala

20

<210> 2357

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2357

Gly Tyr Trp Ser Phe Pro Leu Ala Val Gln Leu His Val Ser Lys Arg
1 5 10 15

Leu Lys Glu Met Ala

20

<210> 2358

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2358

Gly His Ala Ser Phe Gln Thr Ala Val Gln Gln His Val Ser Lys Arg

1 5 10 15

Ser Lys Glu Met Ala

20

<210> 2359

<211> 11

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223>

N-terminal acetylation

<220><221> MOD_RES

<222> (11)..(11)

<223> C-terminal amidation

<400> 2359

Phe His Val Ser Lys Arg Ser Lys Glu Met Ala

1 5 10

<210> 2360

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2360

Gly Tyr Ala Ser Phe Trp His Ala Val Gln Leu His Val Ser Lys Arg

1 5 10 15

Ser Lys Glu Met Ala

20

<210> 2361

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2361

Gly Ile Ala Ser Phe Ile Leu Ala Val Gln Leu His Val Tyr Lys Arg

1 5 10 15

Ser Lys Glu Met Ala

20

<210> 2362

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2362

Gly Tyr Thr Ser Phe Met Gln Ala Val Gln His His Val Ser Lys Arg

1 5 10 15

Ser Lys Glu Ile Ala

20

<210> 2363

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2363

His Tyr His Ser Phe Tyr Leu Ala Val Gln Leu His Val Trp Glu Arg

1 5 10 15

Ser Tyr Glu Met Ala

20

<210> 2364

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223>

N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2364

Gly Tyr Ala Ser Phe Trp His Ala Val Gln His His Val Thr Lys Arg

1 5 10 15

Ser Arg Glu Met Ala

20

<210> 2365

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2365

Gly Tyr Ala Ser Phe Thr Leu Thr Val Gln Leu His Val Ser Lys Arg

1 5 10 15

Ser Lys Glu Met Ala

20

<210> 2366

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2366

Gly Tyr Ala Ser Phe Ile Leu Thr Val Gln Leu His Val Ser Lys Arg

1 5 10 15

Ser Lys Glu Met Ala

20

<210> 2367

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2367

Gly Tyr Ala Ser Phe Trp Leu Ala Val Gln Ile His Val Ser Lys Arg

1 5 10 15

Ser Lys Glu Met Ala

20

<210> 2368

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2368

Gly Tyr Ala Ser Phe Ile Leu Ala Val Gln His His Val Ser Lys Arg

1 5 10 15

Ser Lys Glu Met Ala

20

<210> 2369

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2369

Ser Tyr Ala Ser Phe Pro Pro Ala Val Met Leu His Val Trp Lys Arg

1 5 10 15

Ser Tyr Glu Met Ala

20

<210> 2370

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223>

N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2370

Gly Tyr Ala Ser Phe Asn Leu Ala Val Gln Leu His Val Ser Lys Arg

1 5 10 15

Ser Lys Glu Met Ala

20

<210> 2371

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2371

Gly Tyr Trp Ser Phe Asn Leu Ala Val Gln Leu His Val Ser Lys Arg

1 5 10 15

Ser Lys Glu Met Ala

20

<210> 2372

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2372

Gly Tyr Ala Ser Phe Phe Leu Ala Val Gln Leu His Val Ser Lys Arg

1 5 10 15

Ser Lys Glu Met Ala

20

<210> 2373

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2373

Gly Tyr Ala Ser Phe Trp Leu Ala Val Gln Met His Val Trp Lys Arg

1 5 10 15

Ser Lys Glu Met Ala

20

<210> 2374

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2374

Gly Tyr Ala Ser Phe Ser Leu Ala Ile Gln Leu His Val Ser Lys Arg

1 5 10 15

Ser Lys Glu Met Ala

20

<210> 2375

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2375

Gly Ala Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2376

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223>

N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2376

Gly Tyr Ala Ser Ala Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2377

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2377

Gly Tyr Ala Ser Phe Ala Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2378

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2378

Gly Tyr Ala Ser Phe Pro Trp Phe Ala Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2379

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2379

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu Ala Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2380

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2380

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Ala Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2381

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2381

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Ala

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2382

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223>

N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2382

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Ala Glu Met Ala

20

<210> 2383

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2383

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Cys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2384

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2384

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Cys

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2385

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2385

Gly Tyr Ala Ser Phe Asp Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2386

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2386

Gly Tyr Ala Ser Phe Pro Asp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2387

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2387

Gly Tyr Ala Ser Phe Pro Trp Asp Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2388

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223>

N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2388

Gly Tyr Ala Ser Phe Pro Trp Phe Asp Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2389

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2389

Gly Tyr Ala Ser Phe Pro Trp Phe Val Asp Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2390

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2390

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Asp His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2391

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2391

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu Asp Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2392

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2392

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Asp His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2393

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2393

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val Asp Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2394

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223>

N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2394

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Asp Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2395

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2395

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Asp

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2396

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2396

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Asp Trp Glu Met Ala

20

<210> 2397

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2397

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Asp Glu Met Ala

20

<210> 2398

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2398

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Asp Ala

20

<210> 2399

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2399

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Asp

20

<210> 2400

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223>

N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2400

Gly Glu Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2401

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (17)..(17)

<223> Xaa is 2-Amino-isobutyric acid

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2401

Gly Tyr Ala Ser Glu Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2402

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2402

Gly Tyr Ala Ser Phe Glu Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2403

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2403

Gly Tyr Ala Ser Phe Pro Glu Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2404

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2404

Gly Tyr Ala Ser Phe Pro Trp Glu Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2405

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2405

Gly Tyr Ala Ser Phe Pro Trp Phe Glu Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2406

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223>

N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2406

Gly Tyr Ala Ser Phe Pro Trp Phe Val Glu Leu His Val His Lys Arg
1 5 10 15

Ser Trp Glu Met Ala
20

<210> 2407

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2407

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Glu His Val His Lys Arg
1 5 10 15

Ser Trp Glu Met Ala
20

<210> 2408

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2408

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu Glu Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2409

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2409

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Glu His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2410

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2410

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val Glu Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2411

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2411

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Glu Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2412

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223>

N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2412

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Glu

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2413

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2413

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Glu Trp Glu Met Ala

20

<210> 2414

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2414

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Glu Glu Met Ala

20

<210> 2415

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2415

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Glu Ala

20

<210> 2416

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2416

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Glu

20

<210> 2417

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2417

Gly Tyr Ala Ser Phe Phe Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2418

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223>

N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2418

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu Phe Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2419

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2419

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Phe Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2420

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2420

Gly Tyr Ala Ser Phe Gly Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2421

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2421

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu Gly Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2422

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2422

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Gly Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2423

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2423

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Gly

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2424

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223>

N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2424

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Gly Glu Met Ala

20

<210> 2425

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2425

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His His Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2426

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2426

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys His

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2427

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2427

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser His Glu Met Ala

20

<210> 2428

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2428

Gly Tyr Ala Ser Phe Ile Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2429

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2429

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Ile Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2430

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223>

N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2430

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Ile

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2431

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2431

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Lys

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2432

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2432

Gly Tyr Ala Ser Phe Leu Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2433

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2433

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Leu Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2434

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2434

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Leu

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2435

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2435

Gly Tyr Ala Ser Phe Met Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2436

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223>

N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2436

Gly Tyr Ala Ser Phe Pro Met Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2437

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2437

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu Met Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2438

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2438

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Met Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2439

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2439

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Met

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2440

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2440

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Met Met Ala

20

<210> 2441

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2441

Gly Tyr Ala Ser Phe Asn Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2442

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223>

N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2442

Gly Tyr Ala Ser Phe Pro Trp Phe Asn Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2443

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2443

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu Asn Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2444

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2444

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Asn His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2445

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2445

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Asn Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2446

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2446

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Asn

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2447

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2447

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Asn Glu Met Ala

20

<210> 2448

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223>

N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2448

Gly Tyr Ala Ser Phe Pro Pro Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2449

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2449

Gly Tyr Ala Ser Phe Pro Trp Phe Pro Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2450

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2450

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Pro His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2451

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2451

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu Pro Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2452

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2452

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Pro His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2453

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2453

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val Pro Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2454

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223>

N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2454

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Pro Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2455

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2455

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Pro

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2456

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2456

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Pro Trp Glu Met Ala

20

<210> 2457

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2457

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Pro Glu Met Ala

20

<210> 2458

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2458

Gly Gln Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2459

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2459

Gly Tyr Ala Ser Phe Gln Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2460

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223>

N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2460

Gly Tyr Ala Ser Phe Pro Gln Phe Val Gln Leu His Val His Lys Arg
1 5 10 15

Ser Trp Glu Met Ala
20

<210> 2461

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2461

Gly Tyr Ala Ser Phe Pro Trp Phe Gln Gln Leu His Val His Lys Arg
1 5 10 15

Ser Trp Glu Met Ala
20

<210> 2462

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 2462

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu Gln Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2463

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2463

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Gln His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2464

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2464

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Gln Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2465

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2465

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Gln

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2466

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223>

N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2466

Gly Tyr Ala Ser Phe Ser Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2467

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2467

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu Ser Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2468

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2468

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Ser Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2469

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2469

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Ser

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2470

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2470

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Ser Glu Met Ala

20

<210> 2471

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2471

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Ser Met Ala

20

<210> 2472

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223>

N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2472

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Ser Ala

20

<210> 2473

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2473

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ser

20

<210> 2474

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2474

Gly Tyr Ala Ser Phe Thr Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2475

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2475

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu Thr Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2476

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2476

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Thr His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2477

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2477

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Thr Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2478

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223>

N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2478

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Thr

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2479

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2479

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Thr Glu Met Ala

20

<210> 2480

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2480

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Thr Met Ala

20

<210> 2481

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2481

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Thr Ala

20

<210> 2482

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2482

Val Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2483

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2483

Gly Val Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2484

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223>

N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2484

Gly Tyr Val Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2485

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2485

Gly Tyr Ala Ser Phe Val Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2486

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<220><221> MOD_RES

<222> (21)..(21)

<223> N-terminal acetylation

<400> 2486

Gly Tyr Ala Ser Phe Pro Val Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2487

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2487

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu Val Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2488

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2488

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Val Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2489

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2489

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Val

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2490

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223>

N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2490

Gly Tyr Ala Ser Phe Trp Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2491

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2491

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu Trp Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2492

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2492

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Trp Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2493

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2493

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Trp

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2494

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2494

Gly Tyr Ala Ser Phe Tyr Trp Phe Val Gln Leu His Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2495

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2495

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu Tyr Val His Lys Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2496

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223>

N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2496

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Tyr Arg

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2497

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 2497

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Tyr

1 5 10 15

Ser Trp Glu Met Ala

20

<210> 2498

<211> 32

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal Biotinyl

<220><221> MOD_RES

<222> (1)..(1)

<223> Xaa is (13-Amino-4,7,10-trioxa-tridecayl)-succinamic acid

<220><221> MOD_RES

<222> (32)..(32)

<223

> C-terminal amidation

<400> 2498

Xaa Ser Gly Tyr Ala Ser Phe Pro Leu Ala Val Gln Leu His Val Ser

1 5 10 15

Lys Arg Ser Lys Glu Met Ala Leu Ala Arg Leu Tyr Tyr Lys Thr Ser

20 25 30

<210> 2499

<400> 2499

000

<210> 2500

<400> 2500

000

<210> 2501

<400> 2501

000

<210> 2502

<400> 2502

000

<210> 2503

<400> 2503

000

<210> 2504

<400> 2504

000

<210

> 2505

<400> 2505

000

<210> 2506

<400> 2506

000

<210> 2507

<400> 2507

000

<210> 2508

<400> 2508

000

<210> 2509

<400> 2509

000

<210> 2510

<400> 2510

000

<210> 2511

<400> 2511

000

<210> 2512

<400> 2512

000

<210> 2513

<400> 2513

000

<210> 2514

<400> 2514

000

<210> 2515

<400> 2515

000

<210> 2516

<400> 2516

000

<210> 2517

<400> 2517

000

<210> 2518

<400> 2518

000

<210> 2519

<400> 2519

000

<210> 2520

<400> 2520

000

<210> 2521

<400> 2521

000

<210> 2522

<400> 2522

000

<210> 2523

<400> 2523

000

<210> 2524

<400> 2524

000

<210> 2525

<400> 2525

000

<210> 2526

<400> 2526

000

<210> 2527

<400> 2527

000

<210> 2528

<400> 2528

000

<210> 2529

<400> 2529

000

<210> 2530

<400> 2530

000

<210> 2531

<400> 2531

000

<210> 2532

<400> 2532

000

<210> 2533

<400> 2533

000

<210> 2534

<400> 2534

000

<210> 2535

<400

> 2535

000

<210> 2536

<400> 2536

000

<210> 2537

<400> 2537

000

<210> 2538

<400> 2538

000

<210> 2539

<400> 2539

000

<210> 2540

<400> 2540

000

<210> 2541

<400> 2541

000

<210> 2542

<400> 2542

000

<210> 2543

<400> 2543

000

<210> 2544

<400> 2544

000

<210> 2545

<400> 2545

000

<210> 2546

<400> 2546

000

<210> 2547

<400> 2547

000

<210> 2548

<400> 2548

000

<210> 2549

<400> 2549

000

<210> 2550

<400> 2550

000

<210> 2551

<400> 2551

000

<210> 2552

<400> 2552

000

<210> 2553

<400> 2553

000

<210> 2554

<400> 2554

000

<210> 2555

<400> 2555

000

<210> 2556

<400> 2556

000

<210> 2557

<400> 2557

000

<210> 2558

<400> 2558

000

<210> 2559

<400> 2559

000

<210> 2560

<400> 2560

000

<210> 2561

<400> 2561

000

<210> 2562

<400> 2562

000

<210> 2563

<400> 2563

000

<210> 2564

<400> 2564

000

<210> 2565

<400> 2565

000

<210> 2566

<400> 2566

000

<210> 2567

<400> 2567

000

<210> 2568

<400> 2568

000

<210> 2569

<400> 2569

000

<210> 2570

<400> 2570

000

<210> 2571

<400> 2571

000

<210> 2572

<400> 2572

000

<210> 2573

<400> 2573

000

<210> 2574

<400> 2574

000

<210> 2575

<400> 2575

000

<210> 2576

<400> 2576

000

<210> 2577

<400> 2577

000

<210> 2578

<400> 2578

000

<210> 2579

<400> 2579

000

<210> 2580

<400> 2580

000

<210

> 2581

<400> 2581

000

<210> 2582

<400> 2582

000

<210> 2583

<400> 2583

000

<210> 2584

<400> 2584

000

<210> 2585

<400> 2585

000

<210> 2586

<400> 2586

000

<210> 2587

<400> 2587

000

<210> 2588

<400> 2588

000

<210> 2589

<400> 2589

000

<210> 2590

<400> 2590

000

<210> 2591

<400> 2591

000

<210> 2592

<400> 2592

000

<210> 2593

<400> 2593

000

<210> 2594

<400> 2594

000

<210> 2595

<400> 2595

000

<210> 2596

<400> 2596

000

<210> 2597

<400> 2597

000

<210> 2598

<400> 2598

000

<210> 2599

<400> 2599

000

<210> 2600

<400> 2600

000

<210> 2601

<400> 2601

000

<210> 2602

<400> 2602

000

<210> 2603

<400> 2603

000

<210> 2604

<400> 2604

000

<210> 2605

<400> 2605

000

<210> 2606

<400> 2606

000

<210> 2607

<400> 2607

000

<210> 2608

<400> 2608

000

<210> 2609

<400> 2609

000

<210> 2610

<400> 2610

000

<210> 2611

<400

> 2611

000

<210> 2612

<400> 2612

000

<210> 2613

<400> 2613

000

<210> 2614

<400> 2614

000

<210> 2615

<400> 2615

000

<210> 2616

<400> 2616

000

<210> 2617

<400> 2617

000

<210> 2618

<400> 2618

000

<210> 2619

<400> 2619

000

<210> 2620

<400> 2620

000

<210> 2621

<400> 2621

000

<210> 2622

<400> 2622

000

<210> 2623

<400> 2623

000

<210> 2624

<400> 2624

000

<210> 2625

<400> 2625

000

<210> 2626

<400> 2626

000

<210> 2627

<400> 2627

000

<210> 2628

<400> 2628

000

<210> 2629

<400> 2629

000

<210> 2630

<400> 2630

000

<210> 2631

<400> 2631

000

<210> 2632

<400> 2632

000

<210> 2633

<400> 2633

000

<210> 2634

<400> 2634

000

<210> 2635

<400> 2635

000

<210> 2636

<400> 2636

000

<210> 2637

<400> 2637

000

<210> 2638

<400> 2638

000

<210> 2639

<400> 2639

000

<210> 2640

<400> 2640

000

<210> 2641

<400> 2641

000

<210> 2642

<400> 2642

000

<210> 2643

<400> 2643

000

<210> 2644

<400> 2644

000

<210> 2645

<400> 2645

000

<210> 2646

<400> 2646

000

<210> 2647

<400> 2647

000

<210> 2648

<400> 2648

000

<210> 2649

<400> 2649

000

<210> 2650

<400> 2650

000

<210> 2651

<400> 2651

000

<210> 2652

<400> 2652

000

<210> 2653

<400> 2653

000

<210> 2654

<400> 2654

000

<210> 2655

<400> 2655

000

<210> 2656

<400> 2656

000

<210

> 2657

<400> 2657

000

<210> 2658

<400> 2658

000

<210> 2659

<400> 2659

000

<210> 2660

<400> 2660

000

<210> 2661

<400> 2661

000

<210> 2662

<400> 2662

000

<210> 2663

<400> 2663

000

<210> 2664

<400> 2664

000

<210> 2665

<400> 2665

000

<210> 2666

<400> 2666

000

<210> 2667

<400> 2667

000

<210> 2668

<400> 2668

000

<210> 2669

<400> 2669

000

<210> 2670

<400> 2670

000

<210> 2671

<400> 2671

000

<210> 2672

<400> 2672

000

<210> 2673

<400> 2673

000

<210> 2674

<400> 2674

000

<210> 2675

<400> 2675

000

<210> 2676

<400> 2676

000

<210> 2677

<400> 2677

000

<210> 2678

<400> 2678

000

<210> 2679

<400> 2679

000

<210> 2680

<400> 2680

000

<210> 2681

<400> 2681

000

<210> 2682

<400> 2682

000

<210> 2683

<400> 2683

000

<210> 2684

<400> 2684

000

<210> 2685

<400> 2685

000

<210> 2686

<400> 2686

000

<210> 2687

<400

> 2687

000

<210> 2688

<400> 2688

000

<210> 2689

<400> 2689

000

<210> 2690

<400> 2690

000

<210> 2691

<400> 2691

000

<210> 2692

<400> 2692

000

<210> 2693

<400> 2693

000

<210> 2694

<400> 2694

000

<210> 2695

<400> 2695

000

<210> 2696

<400> 2696

000

<210> 2697

<400> 2697

000

<210> 2698

<400> 2698

000

<210> 2699

<400> 2699

000

<210> 2700

<400> 2700

000

<210> 2701

<400> 2701

000

<210> 2702

<400> 2702

000

<210> 2703

<400> 2703

000

<210> 2704

<400> 2704

000

<210> 2705

<400> 2705

000

<210> 2706

<400> 2706

000

<210> 2707

<400> 2707

000

<210> 2708

<400> 2708

000

<210> 2709

<400> 2709

000

<210> 2710

<400> 2710

000

<210> 2711

<400> 2711

000

<210> 2712

<400> 2712

000

<210> 2713

<400> 2713

000

<210> 2714

<400> 2714

000

<210> 2715

<400> 2715

000

<210> 2716

<400> 2716

000

<210> 2717

<400> 2717

000

<210> 2718

<400> 2718

000

<210> 2719

<400> 2719

000

<210> 2720

<400> 2720

000

<210> 2721

<400> 2721

000

<210> 2722

<400> 2722

000

<210> 2723

<400> 2723

000

<210> 2724

<400> 2724

000

<210> 2725

<400> 2725

000

<210> 2726

<400> 2726

000

<210> 2727

<400> 2727

000

<210> 2728

<400> 2728

000

<210> 2729

<400> 2729

000

<210> 2730

<400> 2730

000

<210> 2731

<400> 2731

000

<210> 2732

<400> 2732

000

<210

> 2733

<400> 2733

000

<210> 2734

<400> 2734

000

<210> 2735

<400> 2735

000

<210> 2736

<400> 2736

000

<210> 2737

<400> 2737

000

<210> 2738

<400> 2738

000

<210> 2739

<400> 2739

000

<210> 2740

<400> 2740

000

<210> 2741

<400> 2741

000

<210> 2742

<400> 2742

000

<210> 2743

<400> 2743

000

<210> 2744

<400> 2744

000

<210> 2745

<400> 2745

000

<210> 2746

<400> 2746

000

<210> 2747

<400> 2747

000

<210> 2748

<400> 2748

000

<210> 2749

<400> 2749

000

<210> 2750

<400> 2750

000

<210> 2751

<400> 2751

000

<210> 2752

<400> 2752

000

<210> 2753

<400> 2753

000

<210> 2754

<400> 2754

000

<210> 2755

<400> 2755

000

<210> 2756

<400> 2756

000

<210> 2757

<400> 2757

000

<210> 2758

<400> 2758

000

<210> 2759

<400> 2759

000

<210> 2760

<400> 2760

000

<210> 2761

<400> 2761

000

<210> 2762

<400> 2762

000

<210> 2763

<400

> 2763

000

<210> 2764

<400> 2764

000

<210> 2765

<400> 2765

000

<210> 2766

<400> 2766

000

<210> 2767

<400> 2767

000

<210> 2768

<400> 2768

000

<210> 2769

<400> 2769

000

<210> 2770

<400> 2770

000

<210> 2771

<400> 2771

000

<210> 2772

<400> 2772

000

<210> 2773

<400> 2773

000

<210> 2774

<400> 2774

000

<210> 2775

<400> 2775

000

<210> 2776

<400> 2776

000

<210> 2777

<400> 2777

000

<210> 2778

<400> 2778

000

<210> 2779

<400> 2779

000

<210> 2780

<400> 2780

000

<210> 2781

<400> 2781

000

<210> 2782

<400> 2782

000

<210> 2783

<400> 2783

000

<210> 2784

<400> 2784

000

<210> 2785

<400> 2785

000

<210> 2786

<400> 2786

000

<210> 2787

<400> 2787

000

<210> 2788

<400> 2788

000

<210> 2789

<400> 2789

000

<210> 2790

<400> 2790

000

<210> 2791

<400> 2791

000

<210> 2792

<400> 2792

000

<210> 2793

<400> 2793

000

<210> 2794

<400> 2794

000

<210> 2795

<400> 2795

000

<210> 2796

<400> 2796

000

<210> 2797

<400> 2797

000

<210> 2798

<400> 2798

000

<210> 2799

<400> 2799

000

<210> 2800

<400> 2800

000

<210> 2801

<400> 2801

000

<210> 2802

<400> 2802

000

<210> 2803

<400> 2803

000

<210> 2804

<400> 2804

000

<210> 2805

<400> 2805

000

<210> 2806

<400> 2806

000

<210> 2807

<400> 2807

000

<210> 2808

<400> 2808

000

<210

> 2809

<400> 2809

000

<210> 2810

<400> 2810

000

<210> 2811

<400> 2811

000

<210> 2812

<400> 2812

000

<210> 2813

<400> 2813

000

<210> 2814

<400> 2814

000

<210> 2815

<400> 2815

000

<210> 2816

<400> 2816

000

<210> 2817

<400> 2817

000

<210> 2818

<400> 2818

000

<210> 2819

<400> 2819

000

<210> 2820

<400> 2820

000

<210> 2821

<400> 2821

000

<210> 2822

<400> 2822

000

<210> 2823

<400> 2823

000

<210> 2824

<400> 2824

000

<210> 2825

<400> 2825

000

<210> 2826

<400> 2826

000

<210> 2827

<400> 2827

000

<210> 2828

<400> 2828

000

<210> 2829

<400> 2829

000

<210> 2830

<400> 2830

000

<210> 2831

<400> 2831

000

<210> 2832

<400> 2832

000

<210> 2833

<400> 2833

000

<210> 2834

<400> 2834

000

<210> 2835

<400> 2835

000

<210> 2836

<400> 2836

000

<210> 2837

<400> 2837

000

<210> 2838

<400> 2838

000

<210> 2839

<400

> 2839

000

<210> 2840

<400> 2840

000

<210> 2841

<400> 2841

000

<210> 2842

<400> 2842

000

<210> 2843

<400> 2843

000

<210> 2844

<400> 2844

000

<210> 2845

<400> 2845

000

<210> 2846

<400> 2846

000

<210> 2847

<400> 2847

000

<210> 2848

<400> 2848

000

<210> 2849

<400> 2849

000

<210> 2850

<400> 2850

000

<210> 2851

<400> 2851

000

<210> 2852

<400> 2852

000

<210> 2853

<400> 2853

000

<210> 2854

<400> 2854

000

<210> 2855

<400> 2855

000

<210> 2856

<400> 2856

000

<210> 2857

<400> 2857

000

<210> 2858

<400> 2858

000

<210> 2859

<400> 2859

000

<210> 2860

<400> 2860

000

<210> 2861

<400> 2861

000

<210> 2862

<400> 2862

000

<210> 2863

<400> 2863

000

<210> 2864

<400> 2864

000

<210> 2865

<400> 2865

000

<210> 2866

<400> 2866

000

<210> 2867

<400> 2867

000

<210> 2868

<400> 2868

000

<210> 2869

<400> 2869

000

<210> 2870

<400> 2870

000

<210> 2871

<400> 2871

000

<210> 2872

<400> 2872

000

<210> 2873

<400> 2873

000

<210> 2874

<400> 2874

000

<210> 2875

<400> 2875

000

<210> 2876

<400> 2876

000

<210> 2877

<400> 2877

000

<210> 2878

<400> 2878

000

<210> 2879

<400> 2879

000

<210> 2880

<400> 2880

000

<210> 2881

<400> 2881

000

<210> 2882

<400> 2882

000

<210> 2883

<400> 2883

000

<210> 2884

<400> 2884

000

<210

> 2885

<400> 2885

000

<210> 2886

<400> 2886

000

<210> 2887

<400> 2887

000

<210> 2888

<400> 2888

000

<210> 2889

<400> 2889

000

<210> 2890

<400> 2890

000

<210> 2891

<400> 2891

000

<210> 2892

<400> 2892

000

<210> 2893

<400> 2893

000

<210> 2894

<400> 2894

000

<210> 2895

<400> 2895

000

<210> 2896

<400> 2896

000

<210> 2897

<400> 2897

000

<210> 2898

<400> 2898

000

<210> 2899

<400> 2899

000

<210> 2900

<400> 2900

000

<210> 2901

<400> 2901

000

<210> 2902

<400> 2902

000

<210> 2903

<400> 2903

000

<210> 2904

<400> 2904

000

<210> 2905

<400> 2905

000

<210> 2906

<400> 2906

000

<210> 2907

<400> 2907

000

<210> 2908

<400> 2908

000

<210> 2909

<400> 2909

000

<210> 2910

<400> 2910

000

<210> 2911

<400> 2911

000

<210> 2912

<400> 2912

000

<210> 2913

<400> 2913

000

<210> 2914

<400> 2914

000

<210> 2915

<400

> 2915

000

<210> 2916

<400> 2916

000

<210> 2917

<400> 2917

000

<210> 2918

<400> 2918

000

<210> 2919

<400> 2919

000

<210> 2920

<400> 2920

000

<210> 2921

<400> 2921

000

<210> 2922

<400> 2922

000

<210> 2923

<400> 2923

000

<210> 2924

<400> 2924

000

<210> 2925

<400> 2925

000

<210> 2926

<400> 2926

000

<210> 2927

<400> 2927

000

<210> 2928

<400> 2928

000

<210> 2929

<400> 2929

000

<210> 2930

<400> 2930

000

<210> 2931

<400> 2931

000

<210> 2932

<400> 2932

000

<210> 2933

<400> 2933

000

<210> 2934

<400> 2934

000

<210> 2935

<400> 2935

000

<210> 2936

<400> 2936

000

<210> 2937

<400> 2937

000

<210> 2938

<400> 2938

000

<210> 2939

<400> 2939

000

<210> 2940

<400> 2940

000

<210> 2941

<400> 2941

000

<210> 2942

<400> 2942

000

<210> 2943

<400> 2943

000

<210> 2944

<400> 2944

000

<210> 2945

<400> 2945

000

<210> 2946

<400> 2946

000

<210> 2947

<400> 2947

000

<210> 2948

<400> 2948

000

<210> 2949

<400> 2949

000

<210> 2950

<400> 2950

000

<210> 2951

<400> 2951

000

<210> 2952

<400> 2952

000

<210> 2953

<400> 2953

000

<210> 2954

<400> 2954

000

<210> 2955

<400> 2955

000

<210> 2956

<400> 2956

000

<210> 2957

<400> 2957

000

<210> 2958

<400> 2958

000

<210> 2959

<400> 2959

000

<210> 2960

<400> 2960

000

<210

> 2961

<400> 2961

000

<210> 2962

<400> 2962

000

<210> 2963

<400> 2963

000

<210> 2964

<400> 2964

000

<210> 2965

<400> 2965

000

<210> 2966

<400> 2966

000

<210> 2967

<400> 2967

000

<210> 2968

<400> 2968

000

<210> 2969

<400> 2969

000

<210> 2970

<400> 2970

000

<210> 2971

<400> 2971

000

<210> 2972

<400> 2972

000

<210> 2973

<400> 2973

000

<210> 2974

<400> 2974

000

<210> 2975

<400> 2975

000

<210> 2976

<400> 2976

000

<210> 2977

<400> 2977

000

<210> 2978

<400> 2978

000

<210> 2979

<400> 2979

000

<210> 2980

<400> 2980

000

<210> 2981

<400> 2981

000

<210> 2982

<400> 2982

000

<210> 2983

<400> 2983

000

<210> 2984

<400> 2984

000

<210> 2985

<400> 2985

000

<210> 2986

<400> 2986

000

<210> 2987

<400> 2987

000

<210> 2988

<400> 2988

000

<210> 2989

<400> 2989

000

<210> 2990

<400> 2990

000

<210> 2991

<400

> 2991

000

<210> 2992

<400> 2992

000

<210> 2993

<400> 2993

000

<210> 2994

<400> 2994

000

<210> 2995

<400> 2995

000

<210> 2996

<400> 2996

000

<210> 2997

<400> 2997

000

<210> 2998

<400> 2998

000

<210> 2999

<400> 2999

000

<210> 3000

<400> 3000

000

<210> 3001

<211> 30

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal Biotinyl

<220><221> MOD_RES

<222> (1)..(1)

<223> Xaa is (13-Amino-4,7,10-trioxa-tridecayl)-succinamic acid

<220><221> DISULFID

<222> (6)..(28)

<223> Cys residues linked via disfide bond

<220><221> MOD_RES

<222> (30)..(30)

<223> C-terminal amidation

<400> 3001

Xaa Ser Gly Arg Gly Cys Thr Lys Val Ile Val Phe Thr Phe Arg His
1 5 10 15

Asn Lys Leu Ile Gly Tyr Glu Arg Arg Tyr Asn Cys Thr Ser
20 25 30

<210

> 3002

<211> 30

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal Biotinyl

<220><221> MOD_RES

<222> (1)..(1)

<223> Xaa is (13-Amino-4,7,10-trioxa-tridecayl)-succinamic acid

<220><221> MOD_RES

<222> (30)..(30)

<223> C-terminal amidation

<400> 3002

Xaa Ser Gly Arg Gly Cys Thr Lys Val Ile Val Phe Thr Phe Arg His
1 5 10 15

Asn Lys Leu Ile Gly Tyr Glu Arg Arg Tyr Asn Cys Thr Ser

20 25 30

<210> 3003

<211> 31

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<220><221> MOD_RES

<222> (30)..(30)

<223> Xaa is (13-Amino-4,7,10-trioxa-tridecayl)-succinamic acid

<220><221> MOD_RES

<222> (31)..(31)

<223> Linked to Biotin

<400> 3003

Ser Gly Arg Gly Cys Thr Lys Val Ile Val Phe Thr Phe Arg His Asn

1 5 10 15

Lys Leu Ile Gly Tyr Glu Arg Arg Tyr Asn Cys Thr Ser Xaa Lys

20 25 30

<210> 3004

<211> 34

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal Biotinyl

<220><221> MOD_RES

<222> (1)..(1)

<223> Xaa is (13-Amino-4,7,10-trioxa-tridecayl)-succinamic acid

<220><221> MOD_RES

<222> (34)..(34)

<223

> C-terminal amidation

<400> 3004

Xaa Lys Lys Ser Gly Val Trp Gln Thr His Pro Arg Tyr Phe Trp Thr

1 5 10 15

Met Trp Pro Asp Ile Lys Gly Glu Val Ile Val Leu Phe Gly Thr Ser

20 25 30

Lys Lys

<210> 3005

<211> 35

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (32)..(32)

<223> Xaa is (13-Amino-4,7,10-trioxa-tridecayl)-succinamic acid

<220><221> MOD_RES

<222> (35)..(35)

<223> Linked to Biotin

<220><221> MOD_RES

<222> (35)..(35)

<223> C-terminal amidation

<400> 3005

Lys Lys Ser Gly Val Trp Gln Thr His Pro Arg Tyr Phe Trp Thr Met

1 5 10 15

Trp Pro Asp Ile Lys Gly Glu Val Ile Val Leu Phe Gly Thr Ser Xaa

20 25 30

Lys Lys Lys

35

<210> 3006

<211> 32

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal Biotinyl

<220><221> MOD_RES

<222> (1)..(1)

<223> Xaa is (13-Amino-4,7,10-trioxa-tridecayl)-succinamic acid

<220><221> MOD_RES

<222> (32)..(32)

<223> C-terminal amidation

<400> 3006

Xaa Ser Gly Asn Thr Phe Val Asp Glu Arg Leu Leu Tyr Phe Leu Thr

1 5 10 15

Ile Gly Asn Met Gly Met Tyr Ala Ala Gln Leu Lys Phe Arg Thr Ser

20 25 30

<210> 3007

<211> 13

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal Biotinyl

<220><221> MOD_RES

<222> (1)..(1)

<223> Xaa is (13-Amino-4,7,10-trioxa-tridecayl)-succinamic acid

<220><221> MOD_RES

<222> (13)..(13)

<223> C-terminal amidation

<400> 3007

Xaa Leu Ser Leu Val Gly Ser Phe Ala Val Leu Cys Ala

1 5 10

<210> 3008

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal Biotinyl

<220><221> MOD_RES

<222> (1)..(1)

<223> Xaa is (13-Amino-4,7,10-trioxa-tridecayl)-succinamic acid

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 3008

Xaa Gly Arg Gly Cys Thr Lys Val Ile Val Phe Thr Phe Arg His Asn

1 5 10 15

Lys Leu Ile Gly Tyr

20

<210> 3009

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal Biotin

<220><221> MOD_RES

<222> (1)..(1)

<223> Xaa is (13-Amino-4,7,10-trioxa-tridecayl)-succinamic acid

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 3009

Xaa Cys Thr Lys Val Ile Val Phe Thr Phe Arg His Asn Lys Leu Ile

1 5 10 15

Gly Tyr Glu Arg Arg

20

<210> 3010

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal Biotin

<220><221> MOD_RES

<222> (1)..(1)

<223> Xaa is (13-Amino-4,7,10-trioxa-tridecayl)-succinamic acid

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 3010

Xaa Gly Cys Thr Lys Val Ile Val Phe Thr Phe Arg His Asn Lys Leu

1 5 10 15

Ile Gly Tyr Glu Arg

20

<210> 3011

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal Biotin

<220><221> MOD_RES

<222> (1)..(1)

<223> Xaa is (13-Amino-4,7,10-trioxa-tridecayl)-succinamic acid

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 3011

Xaa Val Ile Val Phe Thr Phe Arg His Asn Lys Leu Ile Gly Tyr Glu
1 5 10 15

Arg Arg Tyr Asn Cys
20

<210> 3012

<211> 19

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal Biotinyl

<220><221> MOD_RES

<222> (1)..(1)

<223> Xaa is (13-Amino-4,7,10-trioxa-tridecayl)-succinamic acid

<220><221> MOD_RES

<222> (19)..(19)

<223> C-terminal amidation

<400> 3012

Xaa Tyr Phe Leu Thr Ile Gly Asn Met Gly Met Tyr Ala Ala Gln Leu
1 5 10 15

Lys Phe Arg

<210> 3013

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal Biotinyl

<220><221> MOD_RES

<222> (1)..(1)

<223> Xaa is (13-Amino-4,7,10-trioxa-tridecayl)-succinamic acid

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 3013

Xaa Tyr Phe Leu Thr Ile Gly Asn Met Gly Met Tyr Ala Ala Gln Leu

1 5 10 15

Lys Phe Arg Thr Ser

20

<210> 3014

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal Biotinyl

<220><221> MOD_RES

<222> (1)..(1)

<223> Xaa is (13-Amino-4,7,10-trioxa-tridecayl)-succinamic acid

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 3014

Xaa Leu Tyr Phe Leu Thr Ile Gly Asn Met Gly Met Tyr Ala Ala Gln

1 5 10 15

Leu Lys Phe Arg Thr

20

<210> 3015

<211> 32

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal Biotinyl

<220><221> MOD_RES

<222> (1)..(1)

<223> Xaa is (13-Amino-4,7,10-trioxa-tridecayl)-succinamic acid

<220><221> MOD_RES

<222> (32)..(32)

<223> C-terminal amidation

<400> 3015

Xaa Ser Gly Gln Phe Trp His Gly Leu Leu Leu Pro Lys Gly Ile Val

1 5 10 15

Leu Asn Trp Thr Leu Lys Pro Trp Trp Met Ile Gly Ala Phe Thr Ser

20 25 30

<210> 3016

<211> 33

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal Biotinyl

<220><221> MOD_RES

<222> (32)..(32)

<223> Xaa is (13-Amino-4,7,10-trioxa-tridecayl)-succinamic acid

<220><221> MOD_RES

<222> (33)..(33)

<223> Linked to Biotin

<220><221> MOD_RES

<222> (33)..(33)

<223> C-terminal amidation

<400> 3016

Ser Gly Gln Phe Trp His Gly Leu Leu Leu Pro Lys Gly Ile Val Leu

1 5 10 15

Asn Trp Thr Leu Lys Pro Trp Trp Met Ile Gly Ala Phe Thr Ser Xaa

20 25 30

Lys

<210> 3017

<211> 32

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (1)..(1)

<223> Xaa is (13-Amino-4,7,10-trioxa-tridecayl)-succinamic acid

<220><221> MOD_RES

<222> (32)..(32)

<223> C-terminal amidation

<400> 3017

Xaa Ser Gly Arg Val Ser Tyr Tyr Trp Gly Val Lys Trp Ser Gln Gln

1 5 10 15

Met Pro Met Ser Trp Trp Pro Asp Thr Trp Tyr Thr Phe Asp Thr Ser

20 25 30

<210> 3018

<211> 33

<212> PRT

<213> Artificial Sequence

<220><223

> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (32)..(32)

<223> Xaa is (13-Amino-4,7,10-trioxa-tridecayl)-succinamic acid

<220><221> MOD_RES

<222> (33)..(33)

<223> Linked to Biotin

<220><221> MOD_RES

<222> (33)..(33)

<223> C-terminal amidation

<400> 3018

Ser Gly Asn Thr Phe Val Asp Glu Arg Leu Leu Tyr Phe Leu Thr Ile

1 5 10 15

Gly Asn Met Gly Met Tyr Ala Ala Gln Leu Lys Phe Arg Thr Ser Xaa

20 25 30

Lys

<210> 3019

<211> 32

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal Biotinyl

<220><221> MOD_RES

<222> (1)..(1)

<223> Xaa is (13-Amino-4,7,10-trioxa-tridecayl)-succinamic acid

<220><221> MOD_RES

<222> (32)..(32)

<223> C-terminal amidation

<400> 3019

Xaa Ser Gly Arg Phe Thr Thr Arg Leu Trp Tyr Phe Ser Trp Asp Arg

1 5 10 15

Leu Pro Trp Tyr Met Pro Phe Lys Gln Tyr Val Leu Ser Ser Thr Ser

20 25 30

<210> 3020

<211> 32

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal Biotinyl

<220><221> MOD_RES

<222> (1)..(1)

<223> Xaa is (13-Amino-4,7,10-trioxa-tridecayl)-succinamic acid

<220><221> MOD_RES

<222> (32)..(32)

<223> C-terminal amidation

<400> 3020

Xaa Ser Gly Ser Tyr Gln Trp Trp Ala Arg Pro Tyr Arg Met Trp Phe

1 5 10 15

Gly Leu Pro Tyr Trp Asn Gln Arg Val Ile Phe Pro Trp Asn Thr Ser

20 25 30

<210> 3021

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal Biotinyl

<220><221> MOD_RES

<222> (1)..(1)

<223> Xaa is (13-Amino-4,7,10-trioxa-tridecayl)-succinamic acid

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 3021

Xaa Leu Leu Tyr Phe Leu Thr Ile Gly Asn Met Gly Met Tyr Ala Ala
1 5 10 15

Gln Leu Lys Phe Arg
20

<210> 3022

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal Biotinyl

<220><221> MOD_RES

<222> (1)..(1)

<223> Xaa is (13-Amino-4,7,10-trioxa-tridecayl)-succinamic acid

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

<400> 3022

Xaa Thr Lys Val Ile Val Phe Thr Phe Arg His Asn Lys Leu Ile Gly
1 5 10 15

Tyr Glu Arg Arg Tyr
20

<210> 3023

<211> 17

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal Biotinyl

<220><221> MOD_RES

<222> (1)..(1)

<223> Xaa is (13-Amino-4,7,10-trioxa-tridecayl)-succinamic acid

<220><221> MOD_RES

<222> (17)..(17)

<223> C-terminal amidation

<400> 3023

Xaa Val Ile Val Phe Thr Phe Arg His Asn Lys Leu Ile Gly Tyr Glu

1 5 10 15

Arg

<210> 3024

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal Biotinyl

<220><221> MOD_RES

<222> (1)..(1)

<223> Xaa is (13-Amino-4,7,10-trioxa-tridecayl)-succinamic acid

<220>

<221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 3024

Phe Gln Arg Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu

1 5 10 15

Arg Ala Lys Leu

20

<210> 3025

<211> 31

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (31)..(31)

<223> C-terminal amidation

<400> 3025

Ser Gly Asn Thr Phe Val Asp Glu Arg Leu Leu Tyr Phe Leu Thr Ile

1 5 10 15

Gly Asn Met Gly Met Tyr Ala Ala Gln Leu Lys Phe Arg Thr Ser

20 25 30

<210> 3026

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 3026

Cys Thr Lys Val Ile Val Phe Thr Phe Arg His Asn Lys Leu Ile Gly

1 5 10 15

Tyr Glu Arg Arg Tyr Asn Cys

20

<210> 3027

<211> 30

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (30)..(30)

<223> C-terminal amidation

<400> 3027

Lys Lys Ser Gly Arg Gly Cys Thr Lys Val Ile Val Phe Thr Phe Arg

1 5 10 15

His Asn Lys Leu Ile Gly Tyr Glu Arg Arg Tyr Asn Lys Lys

20 25 30

<210> 3028

<211> 32

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (32)..(32)

<223> C-terminal amidation

<400> 3028

Lys Lys Ser Gly Val Trp Gln Thr His Pro Arg Tyr Phe Trp Thr Met

1 5 10 15

Trp Pro Asp Ile Lys Gly Glu Val Ile Val Leu Phe Gly Thr Lys Lys

20 25 30

<210> 3029

<211> 33

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (33)..(33)

<223> C-terminal amidation

<400> 3029

Lys Lys Ser Gly Arg Gly Cys Thr Lys Val Ile Val Phe Thr Phe Arg

1 5 10 15

His Asn Lys Leu Ile Gly Tyr Glu Arg Arg Tyr Asn Cys Thr Ser Lys

20 25 30

Lys

<210> 3030

<211> 24

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (24)..(24)

<223> C-terminal amidation

<400> 3030

Lys Lys Val Ile Val Phe Thr Phe Arg His Asn Lys Leu Ile Gly Tyr

1 5 10 15

Glu Arg Arg Tyr Asn Cys Lys Lys

20

<210> 3031

<211> 35

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (35)..(35)

<223> C-terminal amidation

<400> 3031

Lys Lys Ser Gly Asn Thr Phe Val Asp Glu Arg Leu Leu Tyr Phe Leu
1 5 10 15

Thr Ile Gly Asn Met Gly Met Tyr Ala Ala Gln Leu Lys Phe Arg Thr
20 25 30

Ser Lys Lys
35

<210> 3032

<211> 30

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (30)..(30)

<223> C-terminal amidation

<400> 3032

Lys Lys Gly Cys Thr Lys Val Ile Val Phe Thr Phe Arg His Asn Lys
1 5 10 15

Leu Ile Gly Tyr Glu Arg Arg Tyr Asn Cys Thr Ser Lys Lys
20 25 30

<210> 3033

<211> 27

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (27)..(27)

<223> C-terminal amidation

<400> 3033

Lys Lys Lys Val Ile Val Phe Thr Phe Arg His Asn Lys Leu Ile Gly
1 5 10 15

Tyr Glu Arg Arg Tyr Asn Cys Thr Ser Lys Lys
20 25

<210> 3034

<211> 23

<212

> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 3034

Val Asp Glu Arg Leu Leu Tyr Phe Leu Thr Ile Gly Asn Met Gly Met
1 5 10 15

Tyr Ala Ala Gln Leu Lys Phe
20

<210> 3035

<211> 30

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES
<222> (1)..(1)
<223> N-terminal acetylation
<220><221> MOD_RES
<222> (30)..(30)
<223> C-terminal amidation
<400> 3035
Lys Lys Gly Val Trp Gln Thr His Pro Arg Tyr Phe Trp Thr Met Trp
1 5 10 15
Pro Asp Ile Lys Gly Glu Val Ile Val Leu Phe Gly Lys Lys
20 25 30
<210> 3036
<211> 33
<212> PRT
<213> Artificial Sequence
<220><223> Synthetic peptide
<220>
<221> MOD_RES
<222> (1)..(1)
<223> N-terminal acetylation
<220><221> MOD_RES
<222> (33)..(33)
<223> C-terminal amidation
<400> 3036
Lys Lys Ser Gly Val Trp Gln Thr His Pro Arg Tyr Phe Trp Thr Met
1 5 10 15
Trp Pro Asp Ile Lys Gly Glu Val Ile Val Leu Phe Gly Thr Ser Lys
20 25 30
Lys

<210> 3037
<211> 32
<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (32)..(32)

<223> C-terminal amidation

<400> 3037

Lys Lys Gly Val Trp Gln Thr His Pro Arg Tyr Phe Trp Thr Met Trp
1 5 10 15

Pro Asp Ile Lys Gly Glu Val Ile Val Leu Phe Gly Thr Ser Lys Lys
20 25 30

<210> 3038

<211> 25

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal Carboxyfluorescein

<220><221> MOD_RES

<222> (25)..(25)

<223> C-terminal amidation

<400> 3038

Thr Phe Val Asp Glu Arg Leu Leu Tyr Phe Leu Thr Ile Gly Asn Met
1 5 10 15

Gly Met Tyr Ala Ala Gln Leu Lys Phe
20 25

<210> 3039

<211> 24

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (24)..(24)

<223> C-terminal amidation

<400> 3039

Phe Val Asp Glu Arg Leu Leu Tyr Phe Leu Thr Ile Gly Asn Met Gly
1 5 10 15

Met Tyr Ala Ala Gln Leu Lys Phe
20

<210> 3040

<211> 24

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (24)..(24)

<223> C-terminal amidation

<400> 3040

Thr Phe Val Asp Glu Arg Leu Leu Tyr Phe Leu Thr Ile Gly Asn Met
1 5 10 15

Gly Met Tyr Ala Ala Gln Leu Lys
20

<210> 3041

<211> 26

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (26)..(26)

<223> C-terminal amidation

<400

> 3041

Gly Cys Thr Lys Val Ile Val Phe Thr Phe Arg His Asn Lys Leu Ile

1 5 10 15

Gly Tyr Glu Arg Arg Tyr Asn Cys Thr Ser

20 25

<210> 3042

<211> 25

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (25)..(25)

<223> C-terminal amidation

<400> 3042

Cys Thr Lys Val Ile Val Phe Thr Phe Arg His Asn Lys Leu Ile Gly

1 5 10 15

Tyr Glu Arg Arg Tyr Asn Cys Thr Ser

20 25

<210> 3043

<211> 24

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (24)..(24)

<223> C-terminal amidation

<400> 3043

Thr Lys Val Ile Val Phe Thr Phe Arg His Asn Lys Leu Ile Gly Tyr
1 5 10 15

Glu Arg Arg Tyr Asn Cys Thr Ser
20

<210> 3044

<211> 25

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (25)..(25)

<223> C-terminal amidation

<400> 3044

Gly Cys Thr Lys Val Ile Val Phe Thr Phe Arg His Asn Lys Leu Ile
1 5 10 15

Gly Tyr Glu Arg Arg Tyr Asn Cys Thr
20 25

<210> 3045

<211> 24

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (24)..(24)

<223> C-terminal amidation

<400> 3045

Gly Cys Thr Lys Val Ile Val Phe Thr Phe Arg His Asn Lys Leu Ile
1 5 10 15

Gly Tyr Glu Arg Arg Tyr Asn Cys
20

<210> 3046

<211> 29

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (29)..(29)

<223> C-terminal amidation

<400> 3046

Lys Lys Gly Val Trp Gln Thr His Pro Arg Tyr Phe Trp Thr Met Trp
1 5 10 15

Pro Asp Ile Lys Gly Glu Val Ile Val Leu Phe Lys Lys
20 25

<210> 3047

<211> 29

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (29)..(29)

<223> C-terminal amidation

<400> 3047

Ser Gly Arg Gly Cys Thr Lys Val Ile Val Phe Thr Phe Arg His Asn

1 5 10 15

Lys Leu Ile Gly Tyr Glu Arg Arg Tyr Asn Cys Thr Ser

20 25

<210> 3048

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal aceylation

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 3048

Lys Lys Ser Gly Asn Thr Phe Val Asp Glu Arg Leu Leu Tyr Phe Leu

1 5 10 15

Thr Ile Gly Asn Met Lys Lys

20

<210> 3049

<211> 29

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (29)..(29)

<223> C-terminal amidation

<400> 3049

Thr Asn Tyr Thr Gly Ser Glu Lys Cys Ile Arg Phe Val Thr Arg Arg

1 5 10 15

Tyr Leu Gly Val Arg Ile Asn Cys Phe His Lys Gly Ser

20 25

<210> 3050

<211> 29

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (29)..(29)

<223> C-terminal amidation

<400> 3050

Thr Arg Asn Val Val Arg Arg Tyr Glu Cys Phe Gly Ser Thr Gly Cys

1 5 10 15

Ile Lys Tyr Phe Ile His Ser Arg Thr Gly Leu Asn Lys

20 25

<210> 3051

<211> 27

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (27)..(27)

<223> C-terminal amidation

<400> 3051

Lys Lys Ser Gly Arg Gly Cys Thr Lys Val Ile Val Phe Thr Phe Arg

1 5 10 15

His Asn Lys Leu Ile Gly Tyr Glu Arg Lys Lys

20 25

<210> 3052

<211> 24

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (24)..(24)

<223> C-terminal N-ethyl

<400> 3052

Lys Lys Gly Arg Gly Cys Thr Lys Val Ile Val Phe Thr Phe Arg His

1 5 10 15

Asn Lys Leu Ile Gly Tyr Lys Lys

20

<210> 3053

<211> 24

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (24)..(24)

<223> C-terminal amidation

<400> 3053

Lys Lys Cys Thr Lys Val Ile Val Phe Thr Phe Arg His Asn Lys Leu

1 5 10 15

Ile Gly Tyr Glu Arg Arg Lys Lys

20

<210> 3054

<211> 30

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (30)..(30)

<223> C-terminal amidation

<400> 3054

Met Leu Gly Val Leu Met Arg Gly Ile Ser Ala Leu Thr Gly Asp Tyr

1 5 10 15

Thr Ala Arg Phe Glu Phe Tyr Leu Asn Lys Gln Thr Phe Asn

20 25 30

<210> 3055

<211> 24

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (24)..(24)

<223> C-terminal amidation

<400> 3055

Lys Lys Gly Cys Thr Lys Val Ile Val Phe Thr Phe Arg His Asn Lys
1 5 10 15
Leu Ile Gly Tyr Glu Arg Lys Lys
20

<210> 3056
<211> 33
<212> PRT
<213> Artificial Sequence
<220><223> Synthetic peptide
<220><221> MOD_RES
<222> (1)..(1)
<223> N-terminal acetylation
<220><221> MOD_RES
<222> (33)..(33)
<223> C-terminal amidation
<400> 3056
Lys Lys Val Gly Ser Val Thr Arg Trp Ser Met Tyr Gly Pro Ile Phe
1 5 10 15
Ile Lys Phe Thr Trp Thr Leu Glu Gln Pro Val Gly Trp Asp His Lys
20 25 30

Lys

<210> 3057
<211> 23
<212> PRT
<213> Artificial Sequence
<220><223> Synthetic peptide
<220><221> MOD_RES
<222> (1)..(1)
<223> N-terminal acetylation
<220><221> MOD_RES
<222> (23)..(23)
<223> C-terminal amidation

<400> 3057

Lys Lys Phe Trp Thr Met Trp Pro Asp Ile Lys Gly Glu Val Ile Val

1 5 10 15

Leu Phe Gly Thr Ser Lys Lys

20

<210> 3058

<211> 24

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (24)..(24)

<223> C-terminal amidation

<400> 3058

Lys Lys His Pro Arg Tyr Phe Trp Thr Met Trp Pro Asp Ile Lys Gly

1 5 10 15

Glu Val Ile Val Leu Phe Lys Lys

20

<210> 3059

<211> 24

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (24)..(24)

<223> C-terminal amidation

<400> 3059

Lys Lys Tyr Phe Trp Thr Met Trp Pro Asp Ile Lys Gly Glu Val Ile

1 5 10 15

Val Leu Phe Gly Thr Ser Lys Lys

20

<210> 3060

<211> 24

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220

><221> MOD_RES

<222> (24)..(24)

<223> C-terminal amidation

<400> 3060

Lys Lys Ser Gly Asn Thr Phe Val Asp Glu Arg Leu Leu Tyr Phe Leu

1 5 10 15

Thr Ile Gly Asn Met Gly Lys Lys

20

<210> 3061

<211> 24

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (24)..(24)

<223> C-terminal amidation

<400> 3061

Lys Lys Ser Gly Arg Gly Cys Thr Lys Val Ile Val Phe Thr Phe Arg

1 5 10 15

His Asn Lys Leu Ile Gly Lys Lys

20

<210> 3062

<211> 24

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (24)..(24)

<223> C-terminal amidation

<400> 3062

Lys Lys Thr Lys Val Ile Val Phe Thr Phe Arg His Asn Lys Leu Ile

1 5 10 15

Gly Tyr Glu Arg Arg Tyr Lys Lys

20

<210> 3063

<211> 24

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (24)..(24)

<223> C-terminal amidation

<400> 3063

Lys Lys Lys Val Ile Val Phe Thr Phe Arg His Asn Lys Leu Ile Gly

1 5 10 15

Tyr Glu Arg Arg Tyr Asn Lys Lys

20

<210> 3064

<211> 24

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (24)..(24)

<223> C-terminal amidation

<400> 3064

Lys Lys Ile Val Phe Thr Phe Arg His Asn Lys Leu Ile Gly Tyr Glu

1 5 10 15

Arg Arg Tyr Asn Cys Thr Lys Lys

20

<210> 3065

<211> 33

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (33)..(33)

<223> C-terminal amidation

<400> 3065

Lys Lys Leu Thr Gly Asp Trp Thr Tyr Phe Trp Ser Lys Val Ile Trp

1 5 10 15

Gly Pro Gly Val Ile Glu Arg Gln Met Pro Val Ser Thr Phe His Lys

20 25 30

Lys

<210> 3066

<211> 29

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (29)..(29)

<223> C-terminal amidation

<400> 3066

Lys Lys Ser Gly Val Trp Gln Thr His Pro Arg Tyr Phe Trp Thr Met

1 5 10 15

Trp Pro Asp Ile Lys Gly Glu Val Ile Val Leu Lys Lys

20 25

<210> 3067

<211> 26

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (26)..(26)

<223> C-terminal amidation

<400> 3067

Lys Lys Ser Gly Val Trp Gln Thr His Pro Arg Tyr Phe Trp Thr Met

1 5 10 15

Trp Pro Asp Ile Lys Gly Glu Val Lys Lys

20 25

<210> 3068

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 3068

Lys Lys Ser Gly Val Trp Gln Thr His Pro Arg Tyr Phe Trp Thr Met

1 5 10 15

Trp Pro Asp Ile Lys Lys Lys

20

<210> 3069

<211> 29

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (29)..(29)

<223> C-terminal amidation

<400> 3069

Lys Lys Gln Thr His Pro Arg Tyr Phe Trp Thr Met Trp Pro Asp Ile

1 5 10 15

Lys Gly Glu Val Ile Val Leu Phe Gly Thr Ser Lys Lys

20 25

<210> 3070

<211> 26

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (26)..(26)

<223> C-terminal amidation

<400> 3070

Lys Lys Pro Arg Tyr Phe Trp Thr Met Trp Pro Asp Ile Lys Gly Glu

1 5 10 15

Val Ile Val Leu Phe Gly Thr Ser Lys Lys

20 25

<210> 3071

<211> 24

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (24)..(24)

<223> C-terminal amidation

<400> 3071

Lys Lys Ser Gly Val Trp Gln Thr His Pro Arg Tyr Phe Trp Thr Met

1 5 10 15

Trp Pro Asp Ile Lys Gly Lys Lys

20

<210> 3072

<211> 24

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (24)..(24)

<223> C-terminal amidation

<400> 3072

Lys Lys Trp Gln Thr His Pro Arg Tyr Phe Trp Thr Met Trp Pro Asp

1 5 10 15

Ile Lys Gly Glu Val Ile Lys Lys

20

<210> 3073

<211> 32

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (32)..(32)

<223> C-terminal amidation

<400> 3073

Lys Lys Ser Gly Asn Thr Phe Val Asp Glu Arg Leu Leu Tyr Phe Leu

1 5 10 15

Thr Ile Gly Asn Met Gly Met Tyr Ala Ala Gln Leu Lys Phe Lys Lys

20 25 30

<210> 3074

<211> 29

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (29)..(29)

<223> C-terminal amidation

<400> 3074

Lys Lys Ser Gly Asn Thr Phe Val Asp Glu Arg Leu Leu Tyr Phe Leu

1 5 10 15

Thr Ile Gly Asn Met Gly Met Tyr Ala Ala Gln Lys Lys

20 25

<210> 3075

<211> 26

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (26)..(26)

<223> C-terminal amidation

<400> 3075

Lys Lys Ser Gly Asn Thr Phe Val Asp Glu Arg Leu Leu Tyr Phe Leu

1 5 10 15

Thr Ile Gly Asn Met Gly Met Tyr Lys Lys

20 25

<210> 3076

<211> 32

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (32)..(32)

<223> C-terminal amidation

<400> 3076

Lys Lys Thr Phe Val Asp Glu Arg Leu Leu Tyr Phe Leu Thr Ile Gly

1 5 10 15

Asn Met Gly Met Tyr Ala Ala Gln Leu Lys Phe Arg Thr Ser Lys Lys

20 25 30

<210> 3077

<211> 29

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (29)..(29)

<223> C-terminal amidation

<400> 3077

Lys Lys Asp Glu Arg Leu Leu Tyr Phe Leu Thr Ile Gly Asn Met Gly

1 5 10 15

Met Tyr Ala Ala Gln Leu Lys Phe Arg Thr Ser Lys Lys

20 25

<210> 3078

<211> 26

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (26)..(26)

<223> C-terminal amidation

<400> 3078

Lys Lys Leu Leu Tyr Phe Leu Thr Ile Gly Asn Met Gly Met Tyr Ala
1 5 10 15

Ala Gln Leu Lys Phe Arg Thr Ser Lys Lys
20 25

<210> 3079

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 3079

Lys Lys Phe Leu Thr Ile Gly Asn Met Gly Met Tyr Ala Ala Gln Leu
1 5 10 15

Lys Phe Arg Thr Ser Lys Lys
20

<210> 3080

<211> 24

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES
<222> (1)..(1)
<223> N-terminal acetylation
<220><221> MOD_RES
<222> (24)..(24)
<223> C-terminal amidation
<400> 3080
Lys Lys Leu Leu Tyr Phe Leu Thr Ile Gly Asn Met Gly Met Tyr Ala
1 5 10 15
Ala Gln Leu Lys Phe Arg Lys Lys
20
<210> 3081
<211> 24
<212> PRT
<213> Artificial Sequence
<220><223> Synthetic peptide
<220><221> MOD_RES
<222> (1)..(1)
<223> N-terminal acetylation

<220><221> MOD_RES
<222> (24)..(24)
<223> C-terminal amidation
<400> 3081
Lys Lys Leu Tyr Phe Leu Thr Ile Gly Asn Met Gly Met Tyr Ala Ala
1 5 10 15
Gln Leu Lys Phe Arg Thr Lys Lys
20
<210> 3082
<211> 24
<212> PRT
<213> Artificial Sequence
<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (24)..(24)

<223> C-terminal amidation

<400> 3082

Lys Lys Tyr Phe Leu Thr Ile Gly Asn Met Gly Met Tyr Ala Ala Gln

1 5 10 15

Leu Lys Phe Arg Thr Ser Lys Lys

20

<210> 3083

<211> 24

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (24)..(24)

<223> C-terminal amidation

<400> 3083

Lys Lys Val Phe Thr Phe Arg His Asn Lys Leu Ile Gly Tyr Glu Arg

1 5 10 15

Arg Tyr Asn Cys Thr Ser Lys Lys

20

<210> 3084

<211> 22

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (22)..(22)

<223> C-terminal amidation

<400> 3084

Thr Phe Val Asp Glu Arg Leu Leu Tyr Phe Leu Thr Ile Gly Asn Met
1 5 10 15

Gly Met Tyr Ala Ala Gln
20

<210> 3085

<211> 31

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (31)..(31)

<223> C-terminal amidation

<400> 3085

Ser Gly Asp Thr Phe Val Asp Glu Arg Leu Leu Tyr Phe Leu Thr Ile
1 5 10 15

Gly Asn Met Arg Met Tyr Ala Val Gln Leu Lys Phe Arg Thr Ser
20 25 30

<210> 3086

<211> 31

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (31)..(31)

<223> C-terminal amidation

<400> 3086

Ser Gly Asp Thr Phe Val Asp Glu Arg Leu Leu Tyr Phe Leu Thr Thr
1 5 10 15

Gly Asn Met Arg Met Tyr Ala Val Gln Leu Lys Phe Arg Thr Ser
20 25 30

<210> 3087

<211> 31

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (31)..(31)

<223> C-terminal amidation

<400> 3087

Ser Gly Asp Thr Phe Val Asp Glu Arg Leu Leu Tyr Phe Leu Thr Ile
1 5 10 15

Gly Asp Met Arg Met Tyr Ala Val Gln Leu Lys Phe Arg Thr Ser
20 25 30

<210> 3088

<211> 31

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (31)..(31)

<223> C-terminal amidation

<400> 3088

Lys Lys Gly Val Trp Gln Thr His Pro Arg Tyr Phe Trp Thr Met Trp

1 5 10 15

Pro Asp Ile Lys Gly Glu Val Ile Val Leu Phe Gly Thr Lys Lys

20 25 30

<210> 3089

<211> 30

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (30)..(30)

<223> C-terminal amidation

<400> 3089

Lys Lys Val Trp Gln Thr His Pro Arg Tyr Phe Trp Thr Met Trp Pro

1 5 10 15

Asp Ile Lys Gly Glu Val Ile Val Leu Phe Gly Thr Lys Lys

20 25 30

<210>

3090

<211> 29

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (29)..(29)

<223> C-terminal amidation

<400> 3090

Lys Lys Trp Gln Thr His Pro Arg Tyr Phe Trp Thr Met Trp Pro Asp

1 5 10 15

Ile Lys Gly Glu Val Ile Val Leu Phe Gly Thr Lys Lys

20 25

<210> 3091

<211

> 31

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (31)..(31)

<223> C-terminal amidation

<400> 3091

Ser Gly Gly Arg Lys His Lys His Phe Leu Arg Ser Asn Gly Lys Pro

1 5 10 15

Ser Arg Ala Leu Cys Ser Met His Phe Trp Arg Trp Ser Thr Ser

20 25 30

<210> 3092

<

211> 32

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal Biotinyl

<220><221> MOD_RES

<222> (1)..(1)

<223> Xaa is (13-Amino-4,7,10-trioxa-tridecayl)-succinamic acid

<220><221> MOD_RES

<222> (32)..(32)

<223> C-terminal amidation

<400> 3092

Xaa Ser Gly Gly Arg Lys His Leu His Phe Leu Arg Ser Asn Gly Lys

1 5 10 15

Pro Ser Arg Ala Leu Cys Ser Met His Phe Trp Arg Trp Ser Thr Ser

20 25 30

<210> 3093

<211> 31

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (31)..(31)

<223> C-terminal amidation

<400> 3093

Ser Gly Gly Arg Lys His Lys His Phe Leu Arg Ser Asn Gly Lys Pro

1 5 10 15

Ser Arg Ala Leu Ser Ser Met His Phe Trp Arg Trp Ser Thr Ser

20 25 30

<210> 3094

<211> 31

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (31)..(31)

<223> C-terminal amidation

<400> 3094

Lys Gly Ser Ser Arg Ser Gly His Asn Ala Leu Lys Thr His Ser Trp

1 5 10 15

Met Ser Pro Phe Arg Arg Arg Gly Ser Trp Ser Leu His Phe Lys

20 25 30

<210> 3095

<211> 31

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (31)..(31)

<223> C-terminal amidation

<400> 3095

Lys Ser Arg Ser Gly Phe Trp His Ala Trp Ser His Arg Thr Arg Pro

1 5 10 15

Met Lys Ser Arg Leu His Leu Gly Lys Phe Ser Asn Ser Ser Gly

20 25 30

<210> 3096

<211> 28

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (28)..(28)

<223> C-terminal amidation

<400> 3096

Ser Gly Gly Arg Lys His Lys His Phe Leu Arg Ser Asn Gly Lys Pro

1 5 10 15

Ser Arg Ala Leu Ser Ser Met His Phe Trp Arg Trp

20 25

<210> 3097

<211> 25

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (25)..(25)

<223> N-terminal amidation

<400> 3097

Ser Gly Gly Arg Lys His Lys His Phe Leu Arg Ser Asn Gly Lys Pro

1 5 10 15

Ser Arg Ala Leu Ser Ser Met His Phe

20 25

<210> 3098

<211> 22

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (22)..(22)

<223> C-terminal amidation

<400> 3098

Ser Gly Gly Arg Lys His Lys His Phe Leu Arg Ser Asn Gly Lys Pro

1 5 10 15

Ser Arg Ala Leu Ser Ser

20

<210> 3099

<211> 19

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (19)..(19)

<223> C-terminal amidation

<400> 3099

Ser Gly Gly Arg Lys His Lys His Phe Leu Arg Ser Asn Gly Lys Pro

1 5 10 15

Ser Arg Ala

<210> 3100

<211> 28

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (28)..(28)

<223> C-terminal amidation

<400> 3100

Arg Lys His Lys His Phe Leu Arg Ser Asn Gly Lys Pro Ser Arg Ala

1 5 10 15

Leu Ser Ser Met His Phe Trp Arg Trp Ser Thr Ser

20 25

<210> 3101

<211> 25

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (25)..(25)

<223> C-terminal amidation

<400> 3101

Lys His Phe Leu Arg Ser Asn Gly Lys Pro Ser Arg Ala Leu Ser Ser

1 5 10 15

Met His Phe Trp Arg Trp Ser Thr Ser

20 25

<210> 3102

<211> 22

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (22)..(22)

<223> C-terminal amidation

<400> 3102

Leu Arg Ser Asn Gly Lys Pro Ser Arg Ala Leu Ser Ser Met His Phe

1 5 10 15

Trp Arg Trp Ser Thr Ser
20

<210> 3103

<211> 19

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (19)..(19)

<223> C-terminal amidation

<400> 3103

Asn Gly Lys Pro Ser Arg Ala Leu Ser Ser Met His Phe Trp Arg Trp

1 5 10 15

Ser Thr Ser

<210> 3104

<211> 20

<212> PRT

<

213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 3104

Ser Gly Gly Arg Lys His Lys His Phe Leu Arg Ser Asn Gly Lys Pro

1 5 10 15

Ser Arg Ala Leu

20

<210> 3105

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222

> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 3105

Arg Lys His Lys His Phe Leu Arg Ser Asn Gly Lys Pro Ser Arg Ala

1 5 10 15

Leu Ser Ser Met

20

<210> 3106

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 3106

Lys His Phe Leu Arg Ser Asn Gly Lys Pro Ser Arg Ala Leu Ser Ser

1 5 10 15

Met His Phe Trp

20

<210> 3107

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 3107

Leu Arg Ser Asn Gly Lys Pro Ser Arg Ala Leu Ser Ser Met His Phe

1 5 10 15

Trp Arg Trp Ser

20

<210> 3108

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<400> 3108

Ser Asn Gly Lys Pro Ser Arg Ala Leu Ser Ser Met His Phe Trp Arg

1 5 10 15

Trp Ser Thr Ser

20

<210> 3109

<211> 15

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222

> (1)..(1)

<223> Xaa is selected from the group consisting of Leu, Pro, Lys, Ser, Trp, Val, Asn, and Gln

<220><221> MOD_RES

<222> (2)..(2)

<223> Xaa is selected from the group consisting of Leu, Arg, Asn, Phe, and Ile

<220><221> MOD_RES

<222> (3)..(3)

<223> Xaa is selected from the group consisting of Tyr, Val, Pro, and Cys

<220><221> MOD_RES

<222> (4)..(4)

<223> Xaa is selected from the group consisting of Phe, Leu, Gly

<220><221> MOD_RES

<222> (5)..(5)

<223> Xaa is selected from the group consisting of Leu, Trp, Val, Ala, Met, Thr, and Ser

<220><221> MOD_RES

<222> (6)..(6)

<223> Xaa is selected from the group consisting of Thr, Phe, Val, Arg, Ala, Asp, Leu, Glu, Ser, and Tyr

<220><221> MOD_RES

<222> (7)..(7)

<223> Xaa is selected from the group consisting of Ile, Met, Gly, Gln, Asp, and Arg

<220><221> MOD_RES

<222> (8)..(8)

<223> Xaa is selected from the group consisting of Gly, Trp, Tyr, Leu, Met, and His

<220><221> MOD_RES

<222> (9)..(9)

<223> Xaa is selected from the group consisting of Asn, Pro, Phe, His,

Lys, and Tyr

<220><221> MOD_RES

<222> (10)..(10)

<223> Xaa is selected from the group consisting of Met, Asp, Glu, Val, Gly, and Lys

<220><221> MOD_RES

<222> (11)..(11)

<223> Xaa is selected from the group consisting of Gly, Ile, Arg, Ser, Thr, and Leu

<220><221> MOD_RES

<222> (12)..(12)

<223> Xaa is selected from the group consisting of Met, Lys, Leu, and Ile

<220><221> MOD_RES

<222> (13)..(13)

<223> Xaa is selected from the group consisting of Tyr, Gly, Arg, and Ser

<220><221> MOD_RES

<222> (14)..(14)

<223> Xaa is selected from the group consisting of Ala, Glu, Ser, Cys, and Tyr

<220><221> MOD_RES

<222> (15)..(15)

<223> Xaa is selected from the group consisting of Ala, Val, Lys, and Glu

<400> 3109

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

1 5 10 15

<210> 3110

<211> 4

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> Xaa is selected from a group consisting of Val, Trp, Tyr, and Phe

<220><221> MOD_RES

<222> (2)..(2)

<223> Xaa is selected from a group consisting of Asp, Gln, and Ser

<220><221> MOD_RES

<222> (3)..(3)

<223> Xaa is selected from a group consisting of Glu, Thr, Asn, and Ser

<220><221> MOD_RES

<222> (4)..(4)

<223> Xaa is selected from a group consisting of Arg, His, Lys, and Ala

<400> 3110

Xaa Xaa Xaa Xaa

1

<210> 3111

<211> 5

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> Xaa is selected from a group consisting of Phe and Val

<220><221> MOD_RES

<222> (2)..(2)

<223> Xaa is selected from a group consisting of Val, Trp, Tyr, and Phe

<220><221> MOD_RES

<222> (3)..(3)

<223> Xaa is selected from a group consisting of Asp, Gln, and Ser

<220><221> MOD_RES

<222> (4)..(4)

<223> Xaa is selected from a group consisting of Glu, Thr, Asn, and Ser

<220><221> MOD_RES

<222> (5)..(5)

<223> Xaa is selected from a group consisting of Arg, His, Lys, and Ala

<400> 3111

Xaa Xaa Xaa Xaa Xaa

1 5

<210> 3112

<211> 6

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> Xaa is selected from a group consisting of Thr and Gly

<220><221> MOD_RES

<222> (2)..(2)

<223> Xaa is selected from a group consisting of Phe and Val

<220><221> MOD_RES

<222> (3)..(3)

<223> Xaa is selected from a group consisting of Val, Trp, Tyr, and Phe

<220><221> MOD_RES

<222> (4)..(4)

<223> Xaa is selected from a group consisting of Asp, Gln, and Ser

<220><221> MOD_RES

<222> (5)..(5)

<223> Xaa is selected from a group consisting of Glu, Thr, Asn, and Ser

<220><221> MOD_RES

<222> (6)..(6)

<223> Xaa is selected from a group consisting of Arg, His, Lys, and Ala

<400> 3112

Xaa Xaa Xaa Xaa Xaa Xaa

1 5

<210> 3113

<211> 4

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> Xaa is selected from a group consisting of Gln, Ile, Glu, Trp,
Arg, Leu, and Asn

<220><221> MOD_RES

<222> (2)..(2)

<223> Xaa is selected from a group consisting of Leu, Val, Met, and Arg

<220><221> MOD_RES

<222> (3)..(3)

<223> Xaa is selected from a group consisting of Lys, Leu, Ala, and Tyr

<400> 3113

Xaa Xaa Xaa Phe

1

<210> 3114

<211> 5

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> Xaa is selected from a group consisting of Gln, Ile, Glu, Trp,
Arg, Leu, and Asn

<220><221> MOD_RES

<222> (2)..(2)

<223> Xaa is selected from a group consisting of Leu, Val, Met, and Arg

<220><221> MOD_RES

<222> (3)..(3)

<223> Xaa is selected from a group consisting of Lys, Leu, Ala, and Tyr

<400> 3114

Xaa Xaa Xaa Pro Gly

1 5

<210> 3115

<211> 6

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> Xaa is selected from a group consisting of Gln, Ile, Glu, Trp, Arg, Leu, and Asn

<220><221> MOD_RES

<222> (2)..(2)

<223> Xaa is selected from a group consisting of Leu, Val, Met, and Arg

<220><221> MOD_RES

<222> (3)..(3)

<223> Xaa is selected from a group consisting of Lys, Leu, Ala, and Tyr

<400> 3115

Xaa Xaa Xaa Pro Gly Thr

1 5

<210> 3116

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> Xaa is an amino acid selected from the group consisting of Bhf, Cys, Asp, Phe, Gly, His, Ile, Lys, Leu, Met, Asn, Nmf, Gln, Arg, Thr, Val, Trp and Tyr

<220><221> MOD_RES

<222> (2)..(2)

<223> Xaa is an amino acid selected from the group consisting Gly, Lys, and Gln

<220><221> MOD_RES

<222> (3)..(3)

<223> Xaa is an amino acid selected from the group consisting Ala, Aib,

Bhs, Cys, Asp, Glu, Phe, Gly, His, Ile, Lys, Leu, Met, Asn, Pro,

Gln, Arg, Ser, Thr, Val, Trp and Tyr

<220><221> MOD_RES

<222> (4)..(4)

<223> Xaa is an amino acid selected from the group consisting Ala, Aib,

Bhk, Cys, Asp, Glu, Phe, Gly, His, Ile, Lys, D-Lys, Leu, Met,

Asn, Nmk, Pro, Gln, Arg, Ser, Thr, Val, Trp and Tyr

<220><221> MOD_RES

<222> (5)..(5)

<223> Xaa is an amino acid selected from the group consisting D-Ala,

Ala, Aib, Bal, Cys, Asp, D-Asp, Glu, Phe, Gly, His, Lys, D-Lys,

Leu, Met, Asn, Nmg, D-Pro, Gln, Arg, Ser, Thr, Val, Trp and Tyr

<220><221> MOD_RES

<222> (6)..(6)

<223> Xaa is an amino acid selected from the group consisting Ala, Aib,

Btq, Cys, Asp, Glu, Phe, Gly, His, Ile, Lys, Leu, Met, Asn, Gln,

Arg, Ser, Thr, Val, Trp and Tyr

<220><221> MOD_RES

<222> (7)..(7)

<223> Xaa is an amino acid selected from the group consisting Ala, Phe,

Gly, Ile, Lys, Leu, Nmv, Pro, Gln, Ser, Val, Trp and Tyr

<220><221> MOD_RES

<222> (8)..(8)

<223> Xaa is an amino acid selected from the group consisting Phe, His,

Lys, Trp and Tyr

<220><221> MOD_RES

<222> (9)..(9)

<223> Xaa is an amino acid selected from the group consisting Ala, Aib,

D-Phe, Ile, Lys, Ser, Thr, and Val

<220><221> MOD_RES

<222> (10)..(10)

<223> Xaa is an amino acid selected from the group consisting Ala, Aib, Cys, Asp, Glu, Phe, Gly, His, Ile, Lys, Leu, Met, Asn, Nmf, Pro, Gln, Arg, Ser, Thr, Val, Trp and Tyr

<220><221> MOD_RES

<222> (11)..(11)

<223> Xaa is an amino acid selected from the group consisting Aib, Cys, Lys, Gly, and Nmg

<220><221> MOD_RES

<222> (13)..(13)

<223> Xaa is an amino acid selected from the group consisting Ala, Aib, Cys, Glu, Phe, Gly, His, Lys, Leu, Met, Gln, Arg, Trp, and Tyr

<220><221> MOD_RES

<222> (14)..(14)

<223> Xaa is an amino acid selected from the group consisting Ala, Aib, Bhe, Cys, Asp, Glu, Phe, Gly, His, Ile, Lys, Leu, Met, Asn, Pro, Gln, Arg, Ser, Thr, Val, Trp, and Tyr

<220><221> MOD_RES

<222> (15)..(15)

<223> Xaa is an amino acid selected from the group consisting (omega-methyl)-Arg, Asp, Glu, Lys and Arg

<220><221> MOD_RES

<222> (17)..(17)

<223> Xaa is an amino acid selected from the group consisting (omega-methyl)-Arg, Ala, Aib, Bhr, Cys, Cha, Cit, Asp, Dab, Dap, Glu, Eag, Eew, Phe, Gly, His, Har, Hci, Hle, Ile, Lys, Leu, Met, Asn, Nle, Nva, Opa, Orn, Gln, Arg, Ser, Thr, Val, Trp and Tyr

<220><221> MOD_RES

<222> (18)..(18)

<223> Xaa is an amino acid selected from the group consisting Ala, Bal, Cys, Asp, Glu, Phe, Gly, His, Ile, Lys, Leu, Met, Asn, Gln, Arg,

Ser, Thr, Val, Trp and Tyr

<220><221> MOD_RES

<222> (19)..(19)

<223> Xaa is an amino acid selected from the group consisting Bhk, Lys, Arg, and Val

<220><221> MOD_RES

<222> (20)..(20)

<223> Xaa is an amino acid selected from the group consisting of Aib, Bhl, Cys, Phe, Gly, His, Ile, Lys, Leu, Nml, Gln, Arg, Ser, Thr, Val, Trp and Tyr or is absent

<400> 3116

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Tyr Xaa Xaa Xaa Leu
1 5 10 15

Xaa Xaa Xaa Xaa
20

<210> 3117

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> Xaa is selected from any amino acid

<220><221> MOD_RES

<222> (3)..(3)

<223> Xaa is selected from any amino acid

<220><221> MOD_RES

<222> (4)..(4)

<223> Xaa is selected from any amino acid

<220><221> MOD_RES

<222> (5)..(5)

<223> Xaa is selected from any amino acid

<220><221> MOD_RES

<222> (6)..(6)

<223> Xaa is selected from any amino acid

<220><221> MOD_RES

<222> (7)..(7)

<223> Xaa is an amino acid selected from the group consisting of Ile and Val

<220><221> MOD_RES

<222> (8)..(8)

<223> Xaa is selected from any amino acid

<220><221> MOD_RES

<222> (10)..(10)

<223> Xaa is selected from any amino acid

<220><221> MOD_RES

<222> (13)..(13)

<223> Xaa is an amino acid selected from the group consisting of Cys and Phe

<220><221> MOD_RES

<222> (14)..(14)

<223> Xaa is selected from any amino acid

<220><221> MOD_RES

<222> (17)..(17)

<223> Xaa is selected from any amino acid

<220><221> MOD_RES

<222> (18)..(18)

<223> Xaa is selected from any amino acid

<220><221> MOD_RES

<222> (20)..(20)

<223> Xaa is an amino acid selected from the group consisting of Lys and Leu

<400> 3117

Xaa Gln Xaa Xaa Xaa Xaa Xaa Xaa Val Xaa Gly Tyr Xaa Xaa Arg Leu
1 5 10 15

Xaa Xaa Lys Xaa

20

<210> 3118

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> Xaa is an amino acid selected from a group consisting of Ala, Asp, Glu, Phe, Gly, His, Ile, Lys, Leu, Pro, Arg, Ser, Thr, Val and Trp or is absent

<220><221> MOD_RES

<222> (2)..(2)

<223> Xaa is an amino acid selected from a group consisting of Ala, Asp, Glu, Phe, Gly, His, Ile, Lys, Leu, Met, Pro, Arg, Ser, Thr, Val and Trp or is absent

<220><221> misc_feature

<222> (3)..(3)

<223> Xaa can be any naturally occurring amino acid

<220><221> MOD_RES

<222> (4)..(4)

<223> Xaa is an amino acid selected from a group consisting of Ala, Asp, Glu, Phe, Gly, Ile, Lys, Leu, Arg, Ser, Thr, Val and Trp

<220><221> MOD_RES

<222> (6)..(6)

<223> Xaa is an amino acid selected from a group consisting of Phe, His, Ile, Lys, Leu, Arg, Val and Trp

<220><221> MOD_RES

<222> (7)..(7)

<223> Xaa is an amino acid selected from a group consisting of Cys, Hcy, Dap and Lys, preferably selected from the group consisting of Cys and Hcy

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (8)..(8)

<223> Xaa is an amino acid selected from a group consisting of Ala,

Gly, Arg, Ser and Thr

<220><221> MOD_RES

<222> (9)..(9)

<223> Xaa is an amino acid selected from a group consisting of Ala,

Ile, Lys, Leu, Met, D-Met, Nle, D-Pro, Arg, and Val

<220><221> MOD_RES

<222> (10)..(10)

<223> Xaa is an amino acid selected from a group consisting of Ala,

Gly, Ile, Lys, Leu, Pro, Arg, Ser, Thr and Val

<220><221> MOD_RES

<222> (11)..(11)

<223> Xaa is an amino acid selected from a group consisting of Asp,

Glu, Gly, Ser and Thr

<220><221> MOD_RES

<222> (12)..(12)

<223> Xaa is an amino acid selected from a group consisting of Ala,

D-Ala, Asp, D-Asp, Glu, D-Glu, Phe, D-Phe, Gly, Ile, Lys, D-Lys,

Leu, D-Leul, Met, D-Met, Nle, D-Nle, Pro, D-Pro, Arg, D-Arg, Ser,

D-Ser, Thr, D-Thr, Val, D-Val, Trp and D-Trp

<220><221> MOD_RES

<222> (13)..(13)

<223> Xaa is an amino acid selected from a group consisting of Ala,

Asp, D-Asp, Glu, D-Glu, Phe, Gly, Ile, Lys, Leu, Arg, Ser, D-Ser,

Thr, Val and Trp

<220><221> MOD_RES

<222> (15)..(15)

<223> Xaa is an amino acid selected from a group consisting of Ala,

Asp, Glu, Phe, Gly, Ile, Lys, Leu, Met, Nle, Arg, Ser, Thr, Val and Trp

<220><221> MOD_RES

<222> (16)..(16)

<223> Xaa is an amino acid selected from a group consisting of Ala, Asp, Glu, Phe, Ile, Lys, Leu, Met, Nle, Arg, Ser, Thr, Val, Trp and Tyr

<220><221> MOD_RES

<222> (17)..(17)

<223> Xaa is an amino acid selected from a group consisting of Ala, Asp, Glu, Phe, Gly, Ile, Lys, Leu, Arg, Ser, Thr, Val, Trp and Tyr

<220><221> MOD_RES

<222> (18)..(18)

<223> Xaa is an amino acid selected from a group consisting of Cys and Asp

<220><221> MOD_RES

<222> (19)..(19)

<223> Xaa is an amino acid selected from a group consisting of Ala, Phe, Ile, Leu, Ser, Thr, Val, and Trp

<220><221> MOD_RES

<222> (20)..(20)

<223> Xaa is an amino acid selected from a group consisting of Phe and Trp

<220><221>

MOD_RES

<222> (21)..(21)

<223> Xaa is an amino acid selected from a group consisting of Ile, Leu, and Val

<220><221> MOD_RES

<222> (22)..(22)

<223> Xaa is an amino acid selected from a group consisting of Ala, Asp, Glu, Phe, Gly, Ile, Lys, Leu, Pro, Arg, Ser, Thr, Val, and Trp

<220><221> MOD_RES

<222> (23)..(23)

<223> Xaa is an amino acid selected from a group consisting of Ala, Asp, Glu, Phe, Gly, Ile, Lys, Leu, Arg, Ser, Thr, Val, Trp and Tyr or is absent

<400> 3118

Xaa Xaa Xaa Xaa Trp Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa
20

<210> 3119

<211> 23

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> Xaa is selected from any amino acid or is absent

<220><221> MOD_RES

<222> (2)..(2)

<223> Xaa is selected from any amino acid or is absent

<220><221

> MOD_RES

<222> (3)..(3)

<223> Xaa is selected a group of amino acids consisting of Phe and Tyr

<220><221> MOD_RES

<222> (6)..(6)

<223> Xaa is selected a group of amino acids consisting of Phe and His

<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (8)..(8)

<223> Xaa is selected from any amino acid

<220><221> MOD_RES

<222> (9)..(9)

<223> Xaa is selected a group of amino acids consisting of Met and Val

<220>

<221> MOD_RES

<222> (10)..(10)

<223> Xaa is selected from any amino acid

<220><221> MOD_RES

<222> (12)..(12)

<223> Xaa is selected from any amino acid

<220><221> MOD_RES

<222> (13)..(13)

<223> Xaa is selected from any amino acid

<220><221> MOD_RES

<222> (15)..(15)

<223> Xaa is selected a group of amino acids consisting of Ile and Thr

<220><221> MOD_RES

<222> (16)..(16)

<223> Xaa is selected from any amino acid

<220><221> MOD_RES

<222> (17)..(17)

<223> Xaa is selected a group of amino acids consisting of Ser and Thr

<220><221> MOD_RES

<222> (19)..(19)

<223> Xaa is selected a group of amino acids consisting of Ala and Val

<220><221> MOD_RES

<222> (22)..(22)

<223> Xaa is selected from any amino acid

<220><221> MOD_RES

<222> (23)..(23)

<223> Xaa is selected from any amino acid or is absent

<400> 3119

Xaa Xaa Xaa Lys Trp Xaa Cys Xaa Xaa Xaa Asp Xaa Xaa Gly Xaa Xaa

1 5 10 15

Xaa Cys Xaa Trp Val Xaa Xaa

20

<210

> 3120

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> Xaa is an amino acid selected from the group consisting of Ala, Cys, Asp, Phe, Gly, Ile, Lys, Leu, Met, Asn, Pro, Gln, Arg, Ser, Thr, Trp, Glu, His and Tyr or is absent

<220><221> MOD_RES

<222> (2)..(2)

<223> Xaa is an amino acid selected from the group consisting of Ala, Cys, Asp, Phe, His, Lys, Met, Asn, Pro, Arg, Ser, Thr, Trp, Tyr,

Gly, Ile, and Leu or is absent

<220><221> MOD_RES

<222> (3)..(3)

<223> Xaa is an amino acid selected from the group consisting of Ala, Cys, Asp, Glu, Phe, Gly, His, Ile, Lys, Met, Asn, Pro, Arg, Ser, Thr, Trp, and Tyr

<220><221> MOD_RES

<222> (4)..(4)

<223> Xaa is an amino acid selected from the group consisting of Ala, Cys, Asp, Glu, Phe, Gly, His, Ile, Lys, Leu, Met, Asn, Gln, Arg, Ser, Thr, Val, Trp, Tyr and Pro

<220><221> MOD_RES

<222> (5)..(5)

<223> Xaa is an amino acid selected from the group consisting of Cys, Asp, Phe, Gly, His, Ile, Lys, Leu, Met, Asn, Pro, Arg, Ser, Thr, Val, Trp, and Tyr

<220><221> MOD_RES

<222> (6)..(6)

<223> Xaa is an amino acid selected from the group consisting of Ala, Trp, Cys, Lys, Pro, Arg, and His

<220><221> MOD_RES

<222> (7)..(7)

<223> Xaa is an amino acid selected from the group consisting of Gln, Ala, Cys, Phe, Gly, His, Ile, Lys, Leu, Asn, Arg, Thr, Trp and Tyr

<220><221> MOD_RES

<222> (8)..(8)

<223> Xaa is an amino acid selected from the group consisting of Ala, Cys, Phe, Gly, His, Lys, Leu, Met, Asn, Pro, Gln, Arg, Ser, Thr, Val, Trp, Tyr and Ile

<220><221> MOD_RES

<222> (9)..(9)

<223> Xaa is an amino acid selected from the group consisting of Ala, Cys, Phe, Gly, His, Ile, Leu, Met, Arg, Ser, Thr, Val, Trp, Tyr and Lys

<220><221> MOD_RES

<222> (10)..(10)

<223> Xaa is an amino acid selected from the group consisting of Ala, Cys, Phe, Gly, His, Ile, Lys, Leu, Met, Asn, Pro, Gln, Arg, Ser, Thr, Val, Trp, and Tyr

<220><221> MOD_RES

<222> (11)..(11)

<223> Xaa is an amino acid selected from the group consisting of Ala, Gly, Ile, Lys, Leu, Met, Asn, Gln, Arg, Ser, Thr, Val, Trp, Tyr, Cys, Phe, and His

<220><221> MOD_RES

<222> (12)..(12)

<223> Xaa is an amino acid selected from the group consisting of Ala, Cys, His, Ile, Lys, Leu, and Arg

<220><221> MOD_RES

<222> (13)..(13)

<223> Xaa is an amino acid selected from the group consisting of Ala, Cys, Phe, Gly, His, Lys, Leu, Met, Arg, Ser, Val, Trp, Tyr, and Ile

<220><221> MOD_RES

<222> (14)..(14)

<223> Xaa is an amino acid selected from the group consisting of Ala, Cys, Phe, Gly, His, Ile, Leu, Met, Asn, Gln, Arg, Ser, Thr, Val, Trp, Tyr, and Lys

<220><221> MOD_RES

<222> (15)..(15)

<223> Xaa is an amino acid selected from the group consisting of Ala, Lys, and Arg

<

220><221> MOD_RES

<222> (16)..(16)

<223> Xaa is an amino acid selected from the group consisting of Ala, Phe, Lys, and Arg

<220><221> MOD_RES

<222> (17)..(17)

<223> Xaa is an amino acid selected from the group consisting of Ala, Cys, Phe, Gly, Ile, Lys, Leu, Asn, Gln, Arg, Ser, Thr, Val, Trp, Tyr, His, and Met

<220><221> MOD_RES

<222> (18)..(18)

<223> Xaa is an amino acid selected from the group consisting of Ala, Cys, Phe, Ile, Lys, Leu, Met, Gln, Arg, Val, Trp, and Tyr

<220><221> MOD_RES

<222> (19)..(19)

<223> Xaa is an amino acid selected from the group consisting of Ala, Cys, Asp, Glu, Phe, Gly, His, Lys, Leu, Asn, Pro, Gln, Arg, Val, Trp, Tyr, and Ile

<220><221> MOD_RES

<222> (20)..(20)

<223> Xaa is an amino acid selected from the group consisting of Ala, Cys, Phe, Gly, His, Lys, Leu, Met, Asn, Gln, Arg, Val, Trp, Tyr, Ile, and Pro

<220><221> MOD_RES

<222> (21)..(21)

<223> Xaa is an amino acid selected from the group consisting of Ala, Cys, His, Ile, Lys, Leu, Met, Pro, Arg, Thr, Val, Trp, Tyr, Phe, and Gly

<400> 3120

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10 15

Xaa Xaa Xaa Xaa Xaa
20

<210> 3121

<211> 21

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> Xaa is selected from any amino acid or is absent

<220><221> MOD_RES

<222> (2)..(2)

<223> Xaa is selected from any amino acid or is absent

<220><221> MOD_RES

<222> (3)..(3)

<223> Xaa is selected from any amino acid

<220><221> MOD_RES

<222> (4)..(4)

<223> Xaa is selected from any amino acid

<220><221> MOD_RES

<222> (5)..(5)

<223> Xaa is selected from any amino acid

<220><221> MOD_RES

<222> (6)..(6)

<223> Xaa is selected from any amino acid

<220><221> MOD_RES

<222> (7)..(7)

<223> Xaa is selected from any amino acid

<220><221> MOD_RES

<222> (8)..(8)

<223> Xaa is selected from any amino acid

<220><221> MOD_RES

<222> (9)..(9)

<223> Xaa is selected from any amino acid

<220><221> MOD_RES

<222> (10)..(10)

<223> Xaa is selected from any amino acid

<220><221> MOD_RES

<222> (11)..(11)

<223> Xaa is selected from any amino acid

<220><221> MOD_RES

<222> (13)..(13)

<223> Xaa is selected from any amino acid

<220><221> MOD_RES

<222> (14)..(14)

<223> Xaa is selected from any amino acid

<220><221> MOD_RES

<222> (15)..(15)

<223> Xaa is an amino acid selected from a group consisting of Lys and Arg

<220><221> MOD_RES

<222> (17)..(17)

<223> Xaa is selected from any amino acid

<220><221> MOD_RES

<222> (18)..(18)

<223> Xaa is selected from any amino acid

<220><221> MOD_RES

<222> (19)..(19)

<223> Xaa is selected from any amino acid

<220><221> MOD_RES

<222> (20)..(20)

<223> Xaa is selected from any amino acid

<220><221> MOD_RES

<222> (21)..(21)

<223> Xaa is selected from any amino acid

<400> 3121

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa His Xaa Xaa Xaa Arg

1 5 10 15

Xaa Xaa Xaa Xaa Xaa

20

<210> 3122

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> Xaa is an amino acid selected from the group consisting of Ala,

Glu, and Pro or is absent

<220><221> MOD_RES

<222> (2)..(2)

<223> Xaa is an amino acid selected from the group consisting of Phe,

Leu, Tyr, and Met

<220><221> MOD_RES

<222> (4)..(4)

<223> Xaa is an amino acid selected from the group consisting of Met,

Gln, Arg, Ser, Thr, and Cys

<220><221> MOD_RES

<222> (5)..(5)

<223> Xaa is an amino acid selected from the group consisting of Aib,

Lys, Pro, Arg, Glu, Ile, Tyr, Met, and Trp

<220><221> MOD_RES

<222> (6)..(6)

<223> Xaa is an amino acid selected from the group consisting of D-Ala,

Aib, Asp, D-Asp, Gly, His, Lys, D-Lys, Asn, Nmg, D-Pro, Gln, Arg,

Ala, Glu, Cys, and Met

<220><221> MOD_RES

<222> (7)..(7)

<223> Xaa is an amino acid selected from the group consisting of Ala,

Cys, Asp, Gly, His, Lys, Asn, Gln, Arg, Ser, and Met

<220><221> MOD_RES

<222> (8)..(8)

<223> Xaa is an amino acid selected from the group consisting of Ile

and Val

<220><221> MOD_RES

<222> (9)..(9)

<223> Xaa is an amino acid selected from the group consisting of Phe,

His, and Tyr

<220><221> MOD_RES

<222> (11)..(11)

<223> Xaa is an amino acid selected from the group consisting of Ala,

Asp, Glu, Lys, Met, Asn, Gln, Arg, Phe, His Pro, Ser, Val Trp

<220><221> MOD_RES

<222> (14)..(14)

<223> Xaa is an amino acid selected from the group consisting of Cys

and Phe

<220><221> MOD_RES

<222> (15)..(15)

<223> Xaa is an amino acid selected from the group consisting of Ala,

Cys, Asp, Glu, Lys, Leu, Met Asn, Gln, Arg, Thr, Val and Aib

<220><221> MOD_RES

<222> (18)..(18)

<223> Xaa is an amino acid selected from the group consisting of Ala,

Aib, Cys, Cha, Dab, Dap, Eag, Eew, His, Har, Hci, Hle, Lys, Nle,

Nva, Opa, Orn, Arg, Ile, Leu, Ser, and Met

<220><221> MOD_RES

<222> (19)..(19)

<223> Xaa is an amino acid selected from the group consisting of Ala,

Leu, Asn, Met, and Arg

<220><221> MOD_RES

<222> (20)..(20)

<223> Xaa is an amino acid selected from the group consisting of Lys

and Leu

<400> 3122

Xaa Xaa Gln Xaa Xaa Xaa Xaa Xaa Xaa Val Xaa Gly Tyr Xaa Xaa Arg

1 5 10 15

Leu Xaa Lys Xaa

20

<210> 3123

<211> 4

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> Xaa is Leu or Lys

<220><221> MOD_RES

<222> (2)..(2)

<223> Xaa is Gln or Lys

<220><221> MOD_RES

<222> (3)..(3)

<223> Xaa is Val or Lys

<220><221> MOD_RES

<222> (4)..(4)

<223> Xaa is Ala or Lys

<400> 3123

Xaa Xaa Xaa Xaa

1

<210> 3124

<211> 5

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> Xaa is Arg or Lys

<220><221> MOD_RES

<222> (2)..(2)

<223> Xaa is Leu or Lys

<220><221> MOD_RES

<222> (3)..(3)

<223> Xaa is Gln or Lys

<220><221> MOD_RES

<222> (4)..(4)

<223> Xaa is Val or Lys

<220><221> MOD_RES

<222> (5)..(5)

<223> Xaa is Ala or Lys

<400> 3124

Xaa Xaa Xaa Xaa Xaa

1 5

<210> 3125

<211> 6

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES
<222> (1)..(1)
<223> Xaa is Gly or Lys
<220><221> MOD_RES
<222> (2)..(2)
<223> Xaa is Arg or Lys
<220><221> MOD_RES
<222> (3)..(3)
<223> Xaa is Leu or Lys
<220><221> MOD_RES
<222> (4)..(4)
<223> Xaa is Gln or Lys
<220><221> MOD_RES
<222> (5)..(5)
<223> Xaa is Val or Lys
<220><221> MOD_RES
<222> (6)..(6)
<223> Xaa is Ala or Lys
<400> 3125
Xaa Xaa Xaa Xaa Xaa Xaa
1 5
<210> 3126
<211> 7
<212> PRT
<213> Artificial Sequence

<220><223> Synthetic peptide
<220><221> MOD_RES
<222> (1)..(1)
<223> Xaa is Val or Lys
<220><221> MOD_RES
<222> (2)..(2)
<223> Xaa is Gly or Lys

<220><221> MOD_RES

<222> (3)..(3)

<223> Xaa is Arg or Lys

<220><221> MOD_RES

<222> (4)..(4)

<223> Xaa is Leu or Lys

<220><221> MOD_RES

<222> (5)..(5)

<223> Xaa is Gln or Lys

<220><221> MOD_RES

<222> (6)..(6)

<223> Xaa is Val or Lys

<220><221> MOD_RES

<222> (7)..(7)

<223> Xaa is Ala or Lys

<400> 3126

Xaa Xaa Xaa Xaa Xaa Xaa Xaa

1 5

<210> 3127

<211> 8

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> Xaa is Gly or Lys

<220><221> MOD_RES

<222> (2)..(2)

<223> Xaa is Val or Lys

<220><221> MOD_RES

<222> (3)..(3)

<223> Xaa is Gly or Lys

<220><221> MOD_RES

<222> (4)..(4)

<223> Xaa is Arg or Lys

<220><221> MOD_RES

<222> (5)..(5)

<223> Xaa is Leu or Lys

<220><221> MOD_RES

<222> (6)..(6)

<223> Xaa is Gln or Lys

<220><221> MOD_RES

<222> (7)..(7)

<223> Xaa is Val or Lys

<220><221> MOD_RES

<222> (8)..(8)

<223> Xaa is Ala or Lys

<400> 3127

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

1 5

<210> 3128

<211> 9

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> Xaa is Ser or Lys

<220><221> MOD_RES

<222> (2)..(2)

<223> Xaa is Gly or Lys

<220><221> MOD_RES

<222> (3)..(3)

<223> Xaa is Val or Lys

<220><221> MOD_RES

<222> (4)..(4)

<223> Xaa is Gly or Lys

<220><221> MOD_RES

<222> (5)..(5)

<223> Xaa is Arg or Lys

<220><221> MOD_RES

<222> (6)..(6)

<223> Xaa is Leu or Lys

<220><221> MOD_RES

<222> (7)..(7)

<223> Xaa is Gln or Lys

<220><221> MOD_RES

<222> (8)..(8)

<223> Xaa is Val or Lys

<220><221> MOD_RES

<222> (9)..(9)

<223> Xaa is Ala or Lys

<400> 3128

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

1 5

<210> 3129

<211> 10

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (2)..(2)

<223> Xaa is Ser or Lys

<220><221> MOD_RES

<222> (3)..(3)

<223> Xaa is Gly or Lys

<220><221> MOD_RES

<222> (4)..(4)

<223> Xaa is Val or Lys

<220><221> MOD_RES

<222> (5)..(5)

<223> Xaa is Gly or Lys

<220><221> MOD_RES

<222> (6)..(6)

<223> Xaa is Arg or Lys

<220><221> MOD_RES

<222> (7)..(7)

<223> Xaa is Leu or Lys

<220><221> MOD_RES

<222> (8)..(8)

<223> Xaa is Gln or Lys

<220><221> MOD_RES

<222> (9)..(9)

<223> Xaa is Val or Lys

<220><221> MOD_RES

<222> (10)..(10)

<223> Xaa is Ala or Lys

<400> 3129

Lys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

1 5 10

<210> 3130

<211> 11

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (3)..(3)

<223> Xaa is Ser or Lys

<220><221> MOD_RES

<222> (4)..(4)

<223> Xaa is Gly or Lys

<220><221> MOD_RES

<222> (5)..(5)

<223> Xaa is Val or Lys

<220><221> MOD_RES

<222> (6)..(6)

<223> Xaa is Gly or Lys

<220><221> MOD_RES

<222> (7)..(7)

<223> Xaa is Arg or Lys

<220><221> MOD_RES

<222> (8)..(8)

<223> Xaa is Leu or Lys

<220><221> MOD_RES

<222> (9)..(9)

<223> Xaa is Gln or Lys

<220><221> MOD_RES

<222> (10)..(10)

<223> Xaa is Val or Lys

<220><221> MOD_RES

<222> (11)..(11)

<223> Xaa is Ala or Lys

<400> 3130

Lys Lys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

1 5 10

<210> 3131

<211> 4

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> Xaa is Tyr or Lys

<220><221> MOD_RES

<222> (2)..(2)

<223> Xaa is Ser or Lys

<400> 3131

Xaa Xaa Lys Lys

1

<210> 3132

<211> 31

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221>

MOD_RES

<222> (31)..(31)

<223> C-terminal amidation

<400> 3132

Lys Gly Ser Ser Arg Ser Gly His Asn Ala Leu Lys Thr His Ser Trp

1 5 10 15

Met Ser Pro Phe Arg Arg Arg Gly Ser Trp Ser Leu His Phe Lys

20 25 30

<210> 3133

<211> 31

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221

> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (31)..(31)

<223> C-terminal amidation

<400> 3133

Lys Ser Arg Ser Gly Phe Trp His Ala Trp Ser His Arg Thr Arg Pro

1 5 10 15

Met Lys Ser Arg Leu His Leu Gly Lys Phe Ser Asn Ser Ser Gly

20 25 30

<210> 3134

<211> 28

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><

221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (28)..(28)

<223> C-terminal amidation

<400> 3134

Ser Gly Gly Arg Lys His Lys His Phe Leu Arg Ser Asn Gly Lys Pro

1 5 10 15

Ser Arg Ala Leu Ser Ser Met His Phe Trp Arg Trp

20 25

<210> 3135

<211> 25

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222>

(1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (25)..(25)

<223> C-terminal amidation

<400> 3135

Ser Gly Gly Arg Lys His Lys His Phe Leu Arg Ser Asn Gly Lys Pro

1 5 10 15

Ser Arg Ala Leu Ser Ser Met His Phe

20 25

<210> 3136

<211> 22

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (22)..(22)

<223> C-terminal amidation

<400> 3136

Ser Gly Gly Arg Lys His Lys His Phe Leu Arg Ser Asn Gly Lys Pro

1 5 10 15

Ser Arg Ala Leu Ser Ser

20

<210> 3137

<211> 19

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (19)..(19)

<223> C-terminal amidation

<400> 3137

Ser Gly Gly Arg Lys His Lys His Phe Leu Arg Ser Asn Gly Lys Pro

1 5 10 15

Ser Arg Ala

<210> 3138

<211> 28

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<400> 3138

Arg Lys His Lys His Phe Leu Arg Ser Asn Gly Lys Pro Ser Arg Ala

1 5 10 15

Leu Ser Ser Met His Phe Trp Arg Trp Ser Thr Ser

20 25

<210> 3139

<211> 25

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (25)..(25)

<223> C-terminal amidation

<400> 3139

Lys His Phe Leu Arg Ser Asn Gly Lys Pro Ser Arg Ala Leu Ser Ser

1 5 10 15

Met His Phe Trp Arg Trp Ser Thr Ser

20 25

<210> 3140

<211> 22

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (22)..(22)

<223> C-terminal amidation

<400> 3140

Leu Arg Ser Asn Gly Lys Pro Ser Arg Ala Leu Ser Ser Met His Phe
1 5 10 15

Trp Arg Trp Ser Thr Ser
20

<210> 3141

<211> 19

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (19)..(19)

<223> C-terminal amidation

<400> 3141

Asn Gly Lys Pro Ser Arg Ala Leu Ser Ser Met His Phe Trp Arg Trp
1 5 10 15

Ser Thr Ser

<210> 3142

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 3142

Ser Gly Gly Arg Lys His Lys His Phe Leu Arg Ser Asn Gly Lys Pro

1 5 10 15

Ser Arg Ala Leu

20

<210> 3143

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 3143

Arg Lys His Lys His Phe Leu Arg Ser Asn Gly Lys Pro Ser Arg Ala

1 5 10 15

Leu Ser Ser Met

20

<210> 3144

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 3144

Lys His Phe Leu Arg Ser Asn Gly Lys Pro Ser Arg Ala Leu Ser Ser

1 5 10 15

Met His Phe Trp

20

<210> 3145

<211> 20

<212> PRT

<213> Artificial Sequence

<220><223> Synthetic peptide

<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 3145

Ser Asn Gly Lys Pro Ser Arg Ala Leu Ser Ser Met His Phe Trp Arg

1 5 10 15

Trp Ser Thr Ser

20