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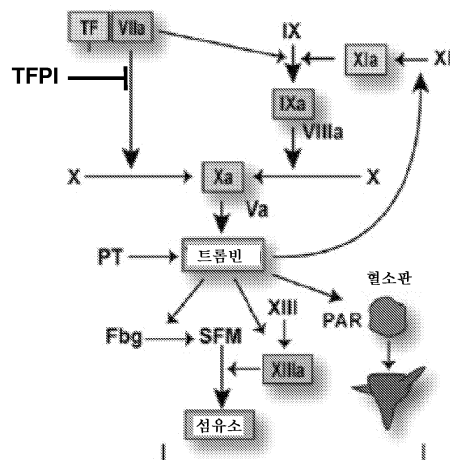
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(54) 발명의 명칭 T F P I 억제제 및 사용 방법

(57) 요약

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 사용될 수 있다.

대표도 - 도1



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명세서

청구범위

청구항 1

하기 아미노산 서열과 적어도 90% 동일한 아미노산 서열로 이루어진, TFPI에 결합하는 펩티드:

Ac-FQSKpNVHVDGYFERL-Aib-AKL-NH₂ (서열 178).

청구항 2

제1항에 있어서, 하기 화학식 I의 구조로 이루어진 펩티드로서:

X1001-X1002-X1003-X1004-X1005-X1006-X1007-X1008-X1009-X1010-X1011-X1012-X1013-X1014-X1015-X1016-X1017-X1018-X1019-X1020 (I) (서열 3116):

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, 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 및 F로 이루어진 군 중에서 선택되는 아미노산이고;

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 및 L로 이루어진 군 중에서 선택되는 아미노산인 펩티드.

청구항 3

삭제

청구항 4

제1항 또는 제2항에 있어서, 하기 화학식 II의 구조로 이루어진 펩티드:

X1000-X1001-X1002-X1003-X1004-X1005-X1006-X1007-X1008-X1009-X1010-X1011-X1012-X1013-X1014-X1015-X1016-X1017-X1018-X1019 (II) (서열 3122)

상기 식에서, X1000은 X1001에 직접 연결된, A, E, 및 P로 이루어진 군 중에서 선택되는 N-말단 아미노산이고, X1001 내지 X1019는 제2항에서 규정한 바와 같고, X1020은 부재한다.

청구항 5

제1항 또는 제2항에 있어서, 펩티드의 IC₅₀이 1000 nM 미만인 펩티드.

청구항 6

삭제

청구항 7

삭제

청구항 8

제2항에 있어서, 추가로 하나 이상의 N-말단 아미노산(들)이 X1001에 직접 연결되고, 여기서 N-말단 아미노산(들)은

X1000,

X999-X1000,

X998-X999-X1000,

X997-X998-X999-X1000 (서열 3123),

X996-X997-X998-X999-X1000 (서열 3124),

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

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

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

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

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

X990-X991-X992-X993-X994-X995-X996-X997-X998-X999-X1000 (서열 3130)로 이루어진 군 중에서 선택된 아미노산 서열로 이루어지고,

여기서, 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 K인 펩티드.

청구항 9

제2항에 있어서, 추가로 하나 이상의 C-말단 아미노산(들)이 X1020에 직접 연결되고, 여기서 C-말단 아미노산(들)은 X1021, X1021-X1022, X1021-X1022-X1023, 및 X1021-X1022-X1023-X1024 (서열 3131)로 이루어진 군 중에서 선택되는 아미노산 서열로 이루어지고, 여기서 X1021은 T 또는 K이고, X1022는 S 또는 K이고, X1023은 K이고, X1024는 K인 펩티드.

청구항 10

제1항 또는 제2항에 있어서, 펩티드가 적어도 2개의 시스테인 잔기를 함유하고, 여기서 적어도 2개의 시스테인 잔기는 화학식 I의 적어도 3개의 아미노산 잔기에 의해 이격되어 있고, 적어도 2개의 시스테인 잔기는 함께 분

자내 디설파이드 결합을 형성하는 것인 펩티드.

청구항 11

삭제

청구항 12

삭제

청구항 13

삭제

청구항 14

제1항 또는 제2항에 있어서, TFPI 활성을 억제하는 것인 펩티드.

청구항 15

제1항 또는 제2항에 있어서, 수용성 중합체에 접합되는 것인 펩티드.

청구항 16

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

청구항 17

제1항 또는 제2항에 있어서, 제1항 또는 제2항에 따른 1개 이상의 제2 펩티드에 융합되거나, 다량체화 도메인에 의해 연결되거나, 또는 화학 연결을 통해 부착되는 것인 펩티드.

청구항 18

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

청구항 19

제18항에 있어서, 상기 방법이 혈액 응고 장애의 치료를 위한 것이고, 상기 혈액 응고 장애는 혈액 응고 인자 활성의 결여 및 혈소판 활성의 결여로 인해 유발된 출혈 장애를 포함하는 것인 펩티드.

청구항 20

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 중양; 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 계실 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) 혈소

관 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 혈액 응고 장애 치료용 제약 조성물.

청구항 21

삭제

청구항 22

제1항 또는 제2항에 있어서, 혈액 응고 장애에 걸린 또는 혈액 응고 장애에 걸릴 위험이 있는 대상체의 진단에 사용하기 위한 펩티드이며, 상기 펩티드는 검출가능한 모이어티에 접합되고, 상기 검출가능한 모이어티의 검출은 대상체가 혈액 응고 장애에 걸리거나 혈액 응고 장애에 걸릴 위험이 있다는 것을 나타내는 것이고, 상기 혈액 응고 장애는 혈액 응고 인자 활성의 결여 및 혈소판 활성의 결여로 인해 유발된 출혈 장애를 포함하는 것인 펩티드.

청구항 23

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 24

제23항에 있어서, 상기 펩티드가 고체 지지체에 고정되는 것인 방법.

청구항 25

제23항에 있어서, 상기 펩티드가 크로마토그래피 정지상에 고정되고, 단계 (c)가 상기 고정된 펩티드에 결합된 TFPI를 용출시키는 것을 포함하는 것인 방법.

청구항 26

삭제

청구항 27

삭제

청구항 28

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청구항 133

삭제

발명의 설명

기술 분야

[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.

배경 기술

[0004] 지혈은 복잡한 응고 캐스케이드에 의존하고, 여기서 혈액 응고 인자에 의해 매개된 일련의 사건은 프로트롬빈의 트롬빈으로의 전환을 일으킨다. 인자 X (FX) 활성화는 고유 및 외인성 경로의 응고 캐스케이드 모두의 중심 사건이다. 외인성 경로는 응고 캐스케이드의 1차 활성화제로서 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 캐스케이드는 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 캐스케이드의 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 (Cawthorn et al., Blood, 91(12), 4581-4592 (1998)). 현재 혈우병 및 다른 응고 질환에 대한 치료법은 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 캐스케이드를 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_7 은 L, P, K, S, W, V, N, 및 Q로 이루어진 군 중에서 선택되고;
- [0012] X_8 은 L, R, N, F, 및 I로 이루어진 군 중에서 선택되고;
- [0013] X_9 는 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_7 에 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_1 은 T 및 G로 이루어진 군 중에서 선택되고; X_2 는 F 및 V로 이루어진 군 중에서 선택되고; X_3 은 V, W, Y, 및 F로 이루어진 군 중에서 선택되고; X_4 는 D, Q, 및 S로 이루어진 군 중에서 선택되고; X_5 는 E, T, N, 및 S로 이루어진 군 중에서 선택되고; X_6 은 R, H, K, 및 A로 이루어진 군 중에서 선택된다.

- [0034] 방법으로 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 캐스케이드 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 (FQSKGNVFDGYFERLRAKL) (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: X_{1001} - X_{1002} - X_{1003} - X_{1004} - X_{1005} - X_{1006} - X_{1007} - X_{1008} - X_{1009} - X_{1010} - X_{1011} - X_{1012} - X_{1013} - X_{1014} - X_{1015} - X_{1016} - X_{1017} - X_{1018} - X_{1019} - X_{1020} (I) (서열 3116).
- [0044] 화학식 I에서,
- [0045] X_{1001} 은 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] X_{1002} 는 G, K 및 Q로 이루어진 군 중에서 선택되는 아미노산이고;
- [0047] X_{1003} 은 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] X_{1004} 는 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] X_{1005} 는 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] X_{1006} 은 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] X_{1007} 은 A, F, G, I, K, L, Nmv, P, Q, S, V, W 및 Y로 이루어진 군 중에서 선택되는 아미노산이고;
- [0052] X_{1008} 은 F, H, K, W 및 Y로 이루어진 군 중에서 선택되는 아미노산이고;
- [0053] X_{1009} 는 A, Aib, f, I, K, S, T 및 V로 이루어진 군 중에서 선택되는 아미노산이고;
- [0054] X_{1010} 은 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] X_{1011} 은 Aib, C, K, G 및 Nmg로 이루어진 군 중에서 선택되는 아미노산이고;
- [0056] X_{1012} 는 Y이고;
- [0057] X_{1013} 은 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, Bh1, 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-GYASFPWFVQLHVKRSWEMA-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-1 α)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 투여하는 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 캐스케이드의 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 EC₅₀ 결합 ELISA의 도면이고, 도 6B는 실시예 1에 기재된 IC₅₀ ELISA의 도면이다.
- 도 7은 비오틴화 펩티드 JBT0132에 대한 % OD (y축) 및 농도 [nM] (x축)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 EC₅₀ 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) 등과 활성 (mU/mL)을 나열하는 표이다. "*"는 음성 대조

군을 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 EC₅₀ 및 % 억제; 외인성 테나제 억제 분석에서 관찰된 TFPI의 EC₅₀ 및 % 억제; 및 혈장-기반 분석에서 FEIBA, FVIII 이뮤네이트, 또는 FIX 증가 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 결합되는 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 IC₅₀ 또는 EC₅₀ 값을 나열하는 표이다. "*"는 음성 대조군을 나타낸다.

발명을 실시하기 위한 구체적인 내용

[0113] 본 발명은 혈액 응고 캐스케이드 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 복합체 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 캐스케이드의 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 캐스케이드에 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

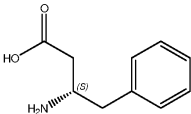
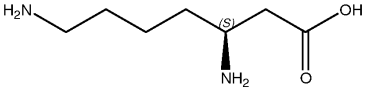
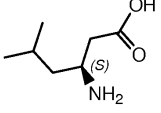
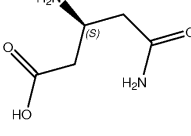
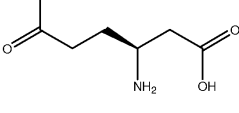
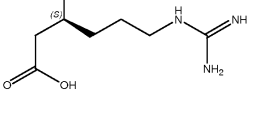
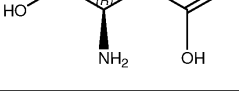
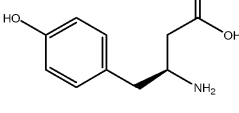
3-문자 코드	1-문자 코드	아미노산	3-문자 코드	1-문자 코드	아미노산
Ala	A	알라닌	Met	M	메티오닌
Cys	C	시스테인	Asn	N	아스파라긴
Asp	D	아스파르트산	Pro	P	프롤린
Glu	E	글루탐산	Gln	Q	글루타민
Phe	F	페닐알라닌	Arg	R	아르기닌
Gly	G	글라이신	Ser	S	세린
His	H	히스티딘	Thr	T	트레오닌
Ile	I	이소류신	Val	V	발린
Lys	K	라이신	Trp	W	트립토판
Leu	L	류신	Tyr	Y	티로신

[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.

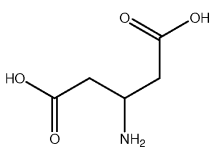
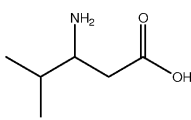
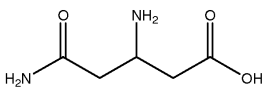
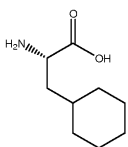
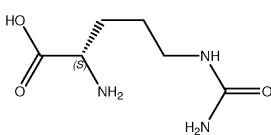
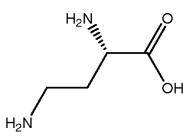
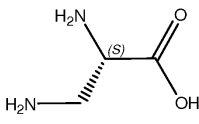
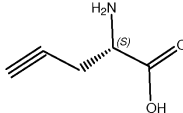
표 2

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

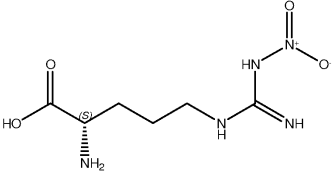
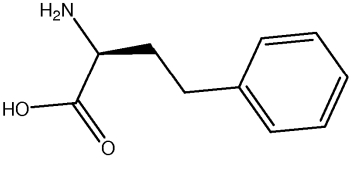
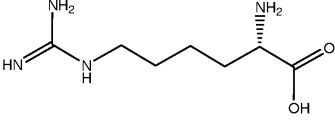
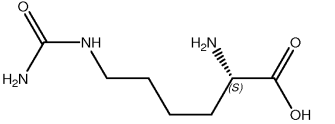
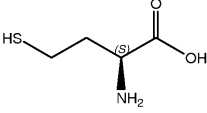
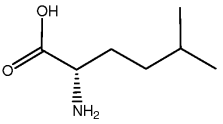
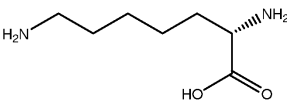
[0117]

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	

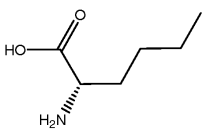
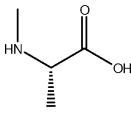
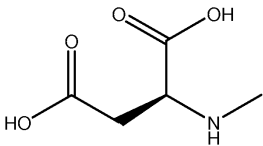
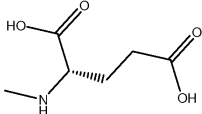
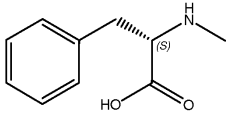
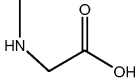
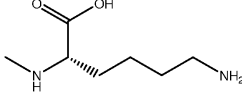
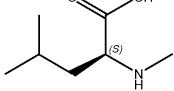
[0118]

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	

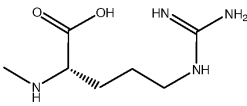
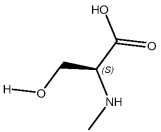
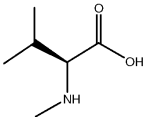
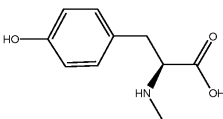
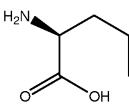
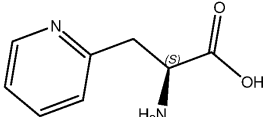
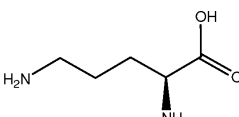
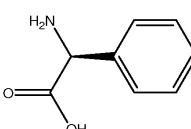
[0119]

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-헥산 산	Hle	
(S)-호모-라이신	Hly	

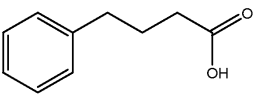
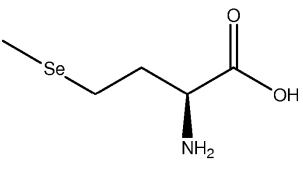
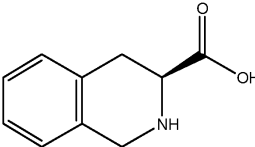
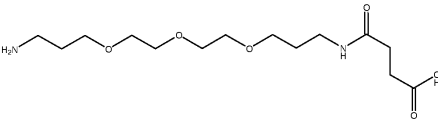
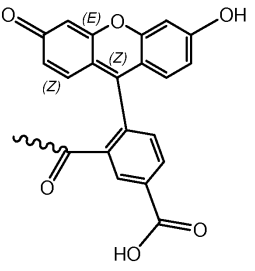
[0120]

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]

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	

[0122]

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-트리테카일)-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 초과인 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, NH₂, 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 화합기에 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_7 은 L, P, K, S, W, V, N, 및 Q로 이루어진 군 중에서 선택되고;
- [0130] X_8 은 L, R, N, F, 및 I로 이루어진 군 중에서 선택되고;
- [0131] X_9 는 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_6 은 코어 구조 아미노산 서열의 X_7 에 직접 연결되고,
- [0152] X_1 은 T 및 G로 이루어진 군 중에서 선택되고;
- [0153] X_2 는 F 및 V로 이루어진 군 중에서 선택되고;

- [0154] X_3 은 V, W, Y, 및 F로 이루어진 군 중에서 선택되고;
- [0155] X_4 는 D, Q, 및 S로 이루어진 군 중에서 선택되고;
- [0156] X_5 는 E, T, N, 및 S로 이루어진 군 중에서 선택되고;
- [0157] X_6 은 R, H, K, 및 A로 이루어진 군 중에서 선택된다.
- [0158] 본 발명의 펩티드는 하나의 측면에서 아미노산 서열 QSKKNVVFVFGYFERLRAK (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_3 은 Y 또는 F이고; X_4 는 Q 또는 S이고; X_5 는 N 또는 S이고; X_7 은 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: X_{1001} - X_{1002} - X_{1003} - X_{1004} - X_{1005} - X_{1006} - X_{1007} - X_{1008} - X_{1009} - X_{1010} - X_{1011} - X_{1012} - X_{1013} - X_{1014} - X_{1015} - X_{1016} - X_{1017} - X_{1018} - X_{1019} - X_{1020} (I) (서열 3116). 화학식 I에서,
- [0176] X_{1001} 은 Bhf, C, D, F, G, H, I, K, L, M, N, Nm, 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, Bh1, C, F, G, H, I, K, L, Nm1, 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, Bh1, 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 디설피드 결합을 포함한다. 이와 관련하여, 화학식 I-III의 구조를 포함하는 펩티드는 시스테인들이 분자내 디설피드 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 초과인 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 디설피드 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, 디설피드 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 C)이고;
- [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 경우, 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-GYASFPWFVQLHVKRSWEMA-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] $\geq$ [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 옹고 케스케이

드의 TFPI 억제제를 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 캐스케이드의 TFPI 억제제를 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) 단백질 분해에 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), 비하전 극성 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, γ -아미노 부티르산, 2-아미노 이소부티르산, 3-아미노 프로피온산, 노르류신, 노르발린, 사르코신, 호모시트룰린, 시스테인, t-부틸글라이신, t-부틸알라닌, 페닐글라이신, 시클로헥실알라닌, β -알라닌, 플루오로-아미노산, 3-메틸 아미노산, 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 작동 가능하게 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, 텍스트란, 셀룰로스, 폴리-(N-비닐 피롤리돈)-폴리에틸렌 글리콜, 프로필렌 글리콜 동중중합체, 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 아실화된다. 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 카복실기가 다른 기로 교체된 아미노산을 포함한다. 비-제한적인 예는 티오아미드, 우레아, 티오우레아, 아실히드라지드, 에스테르, 올레핀, 술폰아미드, 인산 아미드, 케톤, 알콜, 봉산 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), 메티오닌술포시드 (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 삼중체
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, Nm, β-글루타민, 시스(3-프로피온산 아미드)-OH, 시스(2-3-프로피온산 아미드)-OH
P	아세트딘-2-카르복실산, Hyp, α-메틸-메티오닌, 4-히드록시-피페리딘-2-카르복실산, Pip, α-메틸-Pro
Q	N, Nmn, Nm, β-글루타민, 시스(3-프로피온산 아미드)-OH, 시스(2-3-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, Nm, 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-1 α) 활성, 예를 들어 비제한적으로 혈액 응고 캐스케이드를 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 감소하면, 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 특정 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 (EC₅₀)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)TM (써모 사이언티픽 (Thermo Scientific, 미국 매사추세츠주 윌렐))를 이용하여 측정되고, 생성되는 데이터를 트롬비노스코프 비브이로부터 이용가능한 트롬비노스코프 (Thrombinoscope)TM 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 메커니즘에 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 영양류를 포함한 임의의 공급원으로부터의 다양한 펩티드가 TFPI에 결합한다. 하나의 실시양태에서, 펩티드는 인간 TFPI에 결합한다. 임의로, TFPI-억제 펩티드는 하나 초과와 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 K_D 는 유의한 유사성을 공유하므로 쿠니츠 도메인 (KD)을 함유하는 단백질은 잠재적인 항-표적이다. 조직 인자 경로 억제제-2 (TFPI-2)는 TFPI-1a에 매우 유사하고, TFPI-1a와 유사하게 KD 를 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 결합체는 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 용이하게 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, 앵타머 (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 활성화와 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 IX 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 캐스케이드를 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 뉴클레오타이드 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 혈소판감소성 자색반증; 수혈후 자색반증 (PTP); 자가면역 용혈성 빈혈; 육안으로 보이지 않는 공장 계실 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, 혈중, 내부 출혈, 출혈성 관절증, 체온저하, 월경, 임신 및 멍기 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; 활성화-부위 차단된 FVIIa (FVIIai); 활성화-부위 차단된 FIXa (FIXai); FIXa 억제제; FXa 억제제, 예를 들어 폰다파리누스, 이드라파리누스, DX-9065a, 및 라작사반 (DPC906); 활성화-부위 차단된 FXa (FXai); FVa 또는 FVIIIa의 억제제, 예를 들어 활성화된 단백질 C (APC) 및 가용성 트롬보모듈린; 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 또는 혈액 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 억제제가 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 의학의 제조에 사용하기 위한 펩티드를 추가로 제공한다. 예를 들어, 펩티드는 본원에 상세히 설명된 바와 같이 혈액 응고 질환의 치료용 의학의 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, 임상적은 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 $\mu\text{g/kg}$ 내지 약 100 mg/kg 이상을 투여하는 것을 포함한다. 다른 실시양태에서, 투여량은 1 $\mu\text{g/kg}$ 내지 약 75 mg/kg; 또는 5 $\mu\text{g/kg}$ 내지 약 50 mg/kg; 또는 10 $\mu\text{g/kg}$ 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 수여받는 대상체에서 인자 억제제/자가면역 에피소드)를 치료하기 위해 비교적 짧은 치료 기간, 예를 들어, 1 내지 14일 동안 수여된다.

[0375] 본원에 기재된 펩티드를 포함하는 생리학상 허용되는 조성물, 예를 들어 제약 조성물을 수여하는 적합한 방법은 당업계에 공지되어 있다. 펩티드를 수여하기 위해 하나 초과와 경로는 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; 자연 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. 주사가 가능한 용도에 적합한 예시적인 제약 형태는 비제한적으로 멸균 수성 용액 또는 분산액, 및 멸균 주사가 가능 용액 또는 분산액의 즉석 제조를 위한 멸균 분말을 포함한다 (예를 들어, 미국 특허 5,466,468 참조). 주사가 가능한 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 증진 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 제조함 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 질리)) 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 펜실베이니아주 킹 오브 프리시아)); 베불린 (BEBULIN)-VH™ (박스터 (Baxter, 미국 일리노이주 디어필드)); 프로필린 (PROFILIN)® 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 펜실베이니아주 킹 오브 프리시아); 레팩토 (REFACTO)® (와이어쓰, 미국 뉴저지주 메디슨), 진타 (XYNTHA)™ (와이어쓰, 미국 뉴저지주 메디슨), 코게네이트 (KOGENATE)® 및 코게네이트® FS (바이엘 (Bayer, 미국 펜실베이니아주 피츠버그)); 알파네이트 (ALPHANAT

E)® (그리폴스, 미국 캘리포니아주 로스앤젤레스); 헤모필 (HEMOPHIL) M™ (박스터, 미국 일리노이주 디어필드); 코에이트 (KOATE)®-DVI (탈레크리스 바이오써라퓨틱스-유에스에시 (Talecris Biotherapeutics-USA, 미국 노쓰캐롤라이나주 리처치 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 FIII의 투여를 수반하는 전통적인 대체 인자 치료 요법에 대한 부가 요법이다. 일부 경우에, 대상체는 또한 인자 VIII 억제제 우회 활성을 갖는 동결 건조된 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 키니노젠 (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, 앵타머, 또는 스피켈머)와 조합으로 투여된다. 적합한 모이어티는 염료, 방사성 핵종, 방사성 핵종-함유 복합체, 효소, 독소, 항체, 항체 단편, 및 세포독성을 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/백터를 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 래보라토리스 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 트리플루오로아세트산 (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 분리하고, 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 비오틴화 펩티드를 사용하여 수행된 효소 연결 면역흡착 분석 (ELISA)-유사 분석 (결합 (EC_{50}) ELISA)을 통해 입증하였다. 96 웰 맥시소프 (Maxisorp) 플레이트 (닝크 (Nunc))를 코팅 버퍼 (15 mM Na_2CO_3 , 35 mM $NaHCO_3$, pH 9.6) 중의 3 $\mu g/mL$ TFPI로 밤새 코팅하였다. 플레이트를 350 μl 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 μl 로 차단하였다. 이어서, 플레이트를 350 μl HNaT로 3회 세척하였다. 비오틴화된 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 μM 이었다. 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 μl 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. 비오틴화 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-비오틴화 후보 펩티드와 경쟁하도록 "추적자 (tracer)"로서 비오틴화 TFPI-결합 펩티드를 사용하여 수행하였다. 분석 원리를 도 6b에 도시한다. 96 웰 맥시소프 플레이트 (닝크)를 코팅 버퍼 (15 mM Na_2CO_3 , 35 mM $NaHCO_3$, pH 9.6) 중의 3 $\mu g/mL$ TFPI로 밤새 코팅하였다. 플레이트를 350 μl 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 μl 로 차단하였다. 이어서, 플레이트를 350 μl HNaT로 3회 세척하였다. 비오틴화된 추적자 펩티드를 결합 ELISA에서 결정된 그의 각각의 EC_{90} 값 ($n > 2$ 이면 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 비오틴화 추적자 펩티드로 1:6의 비로 (20 μl 경쟁자 희석액 및 100 μl 추적자 펩티드) 추가로 희석하였다. 경쟁자 및 추적자 펩티드의 혼합물을 TFPI-코팅된 미세적정 플레이트에 적용하고, 1.5시간 동안 인큐베이팅하였다. 플레이트를 350 μl HNaT로 3회 세척하였다. 펩티드-TFPI 결합은 HRP-접합된 스트렙타비딘을 미세적정 플레이트에 적용하고, 혼합물을 1시간 동안 인큐베이팅하고, 플레이트를 350 μl HNaT로 3회 세척하고, TMB (3,3',5,5'-테트라메틸벤지딘)를 적용하고, HRP에 의한 TMB의 후속적인 발색 전환을 검출함으로써 검출하였다. 대표적인 비-비오틴화 펩티드에 대한 IC_{50} 그래프를 도 8a-8d에 제공한다. 펩티드 JBT0303, JBT0120 및 JBT0224의 IC_{50} 측정치를 표 3에 제시한다.

표 3

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

[0389] 경쟁 ELISA (IC₅₀) 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 IC₅₀ 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 IC₅₀ 분석 결과 및 스크리닝 분석 결과를 도 32-39에 제공한다. 도 32-39에 제시된 평균 IC₅₀ 값은 표 3에 제시된 값보다 더 많은 갯수의 분석에 기초한 것이고, 따라서, 값은 약간 다를 수 있다. 스크리닝 ELISA의 결과를 추적자 펩티드 JBT0131 결함의 % 억제로서 제시한다. IC₅₀ ELISA를 이용하여 분석한 몇몇 펩티드를 표 4에 제시된 그의 결함 친화도에 따라 도 32-39에서 분류하였다.

표 4

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 비오틴화되고, 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

펩티드	모	서열	서열 번호
JBT0047	JBT0047	QSKKNVFVFGYFERLRAK	1
JBT0047	JBT0047	Ac-SGVGRLQVAFQSKKNVFVFGYFERLRAKLTS-NH2	253
JBT0051	JBT0047	비오틴- ¹ -Tids-SGVGRLQVAFQSKKNVFVFGYFERLRAKLTS-NH2	962
JBT0055	JBT0047	Ac-SGVGRLQVAFQSKKNVFVFGYFERLRAKLTS-Tids-Lys(비오틴)-NH2	963
JBT0131	JBT0047	비오틴- ¹ -Tids-AFQSKKNVFVFGYFERLRAK-NH2	964
JBT0132	JBT0047	비오틴- ¹ -Tids-FQSKKNVFVFGYFERLRAKL-NH2	965
JBT0133	JBT0047	비오틴- ¹ -Tids-QSKKNVFVFGYFERLRAKL-NH2	966
JBT0155	JBT0047	Ac-KKSGVGRLQVAFQSKKNVFVFGYFERLRAKLTSKK-NH2	8
JBT0158	JBT0047	Ac-KKSGVGRLQVAFQSKKNVFVFGYFERLRAKKK-NH2	9
JBT0162	JBT0047	Ac-KKGRLQVAFQSKKNVFVFGYFERLRAKLTSKK-NH2	10
JBT0163	JBT0047	Ac-KKQVAFQSKKNVFVFGYFERLRAKLTSKK-NH2	11
JBT0164	JBT0047	Ac-KKFQSKKNVFVFGYFERLRAKLTSKK-NH2	12
JBT0166	JBT0047	비오틴- ¹ -Tids-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 ₃ X ₄ X ₅ KX ₇ NVFX 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-FQKKNVFVFGYFERLRAKL-NH2	407
JBT0297	JBT0047	Ac-FQSKKNVFVFGYFERLRAKL-NH2	183

JBT0298	JBT0047	Ac-FQSKQN VFVFGYFERLRACL-NH2	747
JBT0299	JBT0047	Ac-FQSKKN VFVAFGYFERLRACL-NH2	408
JBT0300	JBT0047	Ac-FQSKKN VFSFGYFERLRACL-NH2	409
JBT0301	JBT0047	Ac-FQSKKN VFTFGYFERLRACL-NH2	470
JBT0302	JBT0047	Ac-FQSKKN VFVAGYFERLRACL-NH2	258
JBT0303	JBT0047	Ac-FQSKKN VFVDGYFERLRACL-NH2	184
JBT0304	JBT0047	Ac-FQSKKN VFVLGYFERLRACL-NH2	259
JBT0305	JBT0047	Ac-FQSKKN VFVQGYFERLRACL-NH2	260
JBT0306	JBT0047	Ac-FQSKKN VFVSGYFERLRACL-NH2	185
JBT0307	JBT0047	Ac-FQSKKN VFVGYFERLRACL-NH2	261
JBT0308	JBT0047	Ac-FQSKKN VFVFGYKERLRACL-NH2	411
JBT0309	JBT0047	Ac-FQSKKN VFVFGYERLRACL-NH2	412
JBT0310	JBT0047	Ac-FQSKKN VFVGYFDRLRACL-NH2	262
JBT0311	JBT0047	Ac-FQSKKN VFVFGYFERLRACL-NH2	748
		TFVDERLLYFLTIGNMGMYAAQLKF	3
JBT0049	JBT0049	Ac-SGNTFVDERLLYFLTIGNMGMYAAQLKFRTS-NH2	3025
JBT0053	JBT0049	비오틴-Tids-SGNTFVDERLLYFLTIGNMGMYAAQLKFRTS-NH2	3006
JBT0057	JBT0049	Ac-SGNTFVDERLLYFLTIGNMGMYAAQLKFRTS-Tids-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-SGRGCTKVIVFTFRHNKLIGYERRYNTS-NH2	3047
JBT0054	JBT0050	비오틴-Tids-SGRGCTKVIVFTFRHNKLIGYERRYNTS-NH2	3002
JBT0058	JBT0050	Ac-SGRGCTKVIVFTFRHNKLIGYERRYNTS-Tids-라이신(비오틴)-NH2	3003
JBT0129	JBT0050	Ac-SGRG[CTKVIVFTFRHNKLIGYERRYNTS]-NH2	3026
JBT0130	JBT0050	비오틴-Tids-SGRG[CTKVIVFTFRHNKLIGYERRYNTS]-NH2	3001
JBT0205	JBT0050	Ac-KKSGRGCTKVIVFTFRHNKLIGYERRYNTSKK-NH2	3029
JBT0208	JBT0050	Ac-KKSGRGCTKVIVFTFRHNKLIGYERRYNTSKK-NH2	3027
JBT0211	JBT0050	Ac-KKGCTKVIVFTFRHNKLIGYERRYNTSKK-NH2	3032
JBT0212	JBT0050	Ac-KKKVIVFTFRHNKLIGYERRYNTSKK-NH2	3033
JBT0217	JBT0050	Ac-KKTKVIVFTFRHNKLIGYERRYNTSKK-NH2	3062
JBT0218	JBT0050	Ac-KKKVIVFTFRHNKLIGYERRYNTSKK-NH2	3063
JBT0219	JBT0050	Ac-KKVIVFTFRHNKLIGYERRYNTCKK-NH2	3030
		GVWQTHPRYFTWMWPDIKGEVIVLFGT	5
JBT0101	JBT0101	Ac-KKSGVWQTHPRYFTWMWPDIKGEVIVLFGTSKK-NH2	3036
JBT0052	JBT0101	비오틴-Tids-KKSGVWQTHPRYFTWMWPDIKGEVIVLFGTSKK-NH2	3004
JBT0103	JBT0101	Ac-KKSGVWQTHPRYFTWMWPDIKGEVIVLFGTS-Tids-KK-라이신(비오틴)-NH2	3005
JBT0178	JBT0101	Ac-KKSGVWQTHPRYFTWMWPDIKGEVIVLFGTCKK-NH2	3028
JBT0182	JBT0101	Ac-KKSGVWQTHPRYFTWMWPDIKGEVIVLFGTSKK-NH2	3037
		KWFCGMRDMKGTMSCVWVKF	6
JBT0120	JBT0120	Ac-SGASRYKWF[CGMRDMKGTMSC]VWVKFRYDTS-NH2	1047
JBT0124		비오틴-Tids-SGASRYKWF[CGMRDMKGTMSC]VWVKFRYDTS-NH2	1290
JBT0247	JBT0120	Ac-SGASRYKWF[CGMRDMKGTMSC]VWVKFRYDTS-NH2	1213
JBT0248	JBT0120	Ac-KKSGASRYKWF[CGMRDMKGTMSC]VWVKFRYDTSKK-NH2	1001
JBT0251	JBT0120	Ac-KKSWFCGMRDMKGTMSCVWVKFKK-NH2	1202
JBT0252	JBT0120	Ac-KKCGMRDMKGTMSCVWVKFRYDKK-NH2	1215
		ASFPLAVQLHVSRSKSKEMA	7
JBT0122	JBT0122	Ac-SGYASFPLAVQLHVSRSKSKEMALARYYKTS-NH2	2002
JBT0126	JBT0122	비오틴-Tids-SGYASFPLAVQLHVSRSKSKEMALARYYKTS-NH2	2498
JBT0221	JBT0122	Ac-KKSGYASFPLAVQLHVSRSKSKEMALARYYKTSKK-NH2	2003
JBT0224	JBT0122	Ac-KKSGYASFPLAVQLHVSRSKSKEMALARYYKTSKK-NH2	2298
JBT0225	JBT0122	Ac-KKSGYASFPLAVQLHVSRSKSKEMALARKK-NH2	2128
JBT0226	JBT0122	Ac-KKSGYASFPLAVQLHVSRSKSKEMAKK-NH2	2299
JBT0228	JBT0122	Ac-KKASFPLAVQLHVSRSKSKEMALARYYKTSKK-NH2	2016
JBT0232	JBT0122	Ac-KKGYASFPLAVQLHVSRSKSKEMKK-NH2	2303
JBT0233	JBT0122	Ac-KKYASFPLAVQLHVSRSKSKEMAKK-NH2	2304

[0394]

[0395]

본 실시예는 TFPI-억제 펩티드를 생성하고 특성 결정하는 예시적인 방법을 제공한다. 표 5의 모든 펩티드는 인간 TFPI-1a에 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-1a에 10 μ M (1×10^{-5} M) 미만의 EC₅₀ 및 50 μ M 미만의 IC₅₀으로 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 헬스케어 (GE Healthcare, 영국 찰폰트 세인트 자일즈))을

이용하여 연구하였다. TFPI 단백질을 500 RU를 목표로 하는 아민 커플링 (coupling) 화학에 의해 C1 칩 (지이 헬스케어, Order Code: BR-1005-40) 상에 고정시켰다. 몇몇 TFPI-결합 펩티드를 고정된 TFPI 단백질과 상호작용하기 위한 분석물로서 사용하였다. 30 $\mu\text{l}/\text{min}$ 의 유속을 이용하였다. 180초 후에, 180 μl 의 펩티드 용액을 3.84 nM 내지 656.25 nM 범위의 6개의 상이한 농도로 주입한 후, 480초의 해리 시간을 허용하였다. 45 μl 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 헬스케어)를 이용하여 데이터를 분석하였다. 센소그램을 1:1 랭뮤어 (Langmuir) 결합 곡선에 피팅하여, k_{on} 및 k_{off} 를 결정하고 K_D 를 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_D 를 제시하였다. 펩티드 중 2개의 펩티드의 센소그램을 도 9a 및 9b로서 제공한다.

표 6

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}

[0400]

[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 데이터는 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 CaCl₂; 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 입수가가능함) (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 EC₅₀의 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 μ l)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 EC₅₀의 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 [μ M]	2.5 μ M에서 억제 %	EC ₅₀ [μ M]	2.5 μ M에서 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 μ M의 EC₅₀으로 회복시켜, TFPI 활성을 약 20% 내지 약 60% 억제하였다. JBT0047 (EC₅₀=1.4 μ M), JBT0131 (EC₅₀=2.2 μ M), 및 JBT0293 (EC₅₀=2.9 μ M)도 또한 TFPI-1의 존재 하에 외인성 복합체 활성을 회복시켰다. 또한, JBT0120, JBT0132, JBT0224 및 JBT0303은 TFPI-1의 존재 하에 FXa 활성을 < 5 μ M의 EC₅₀으로 회복시켜, FXa 억제 분석에서 TFPI 활성을 약 5% 내지 약 50% 억제하였다. JBT0047 (EC₅₀=0.7 μ M), JBT0131 (EC₅₀=8.2 μ M), JBT0293 (EC₅₀=1.3 μ M), JBT0297 (EC₅₀=0.6 μ M), 및 JBT0305 (EC₅₀=2.3 μ M)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 인큐베이션하였다. 혈장을 인자 XIIa 오염을 억제하기 위해 옥수수 트립신 억제제 (CTI) (헤마톨로지 테크놀로지스, 인크. (Hematologic Technologies, Inc., 미국 버몬트주 에섹스 정션))와 혼합하여 40 μ g/mL의 최종 농도로 하였다.

[0413] 미리 가온한 (37°C) 혈장 (80 μ l)을 96 웰 미세-플레이트 (이몰론 (Immulon) 2HB, 투명한 U자형 바닥; 써모 일렉트론 (Thermo Electron, 미국 매사추세츠주 윌탐))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 μ M) (트롬비노 스코프 비브이, 네덜란드 마스트리흐트)를 함유하는 10 μ l의 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°C) 판독기에 넣기 전에, 5 mg/mL 인간 혈청 알부민 (시그마-알드리치 코퍼레이션 (Sigma-Aldrich Corporation, 미국 미주리주 세인트루이스))을 함유하는 5 μ l의 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 랩

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 μl 의 FluCa 시약 (트롬비노 스코프 비브이, 네덜란드 마스트리흐트)을 분배함으로써 개시시켰다. 형광 강도를 37°C에서 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

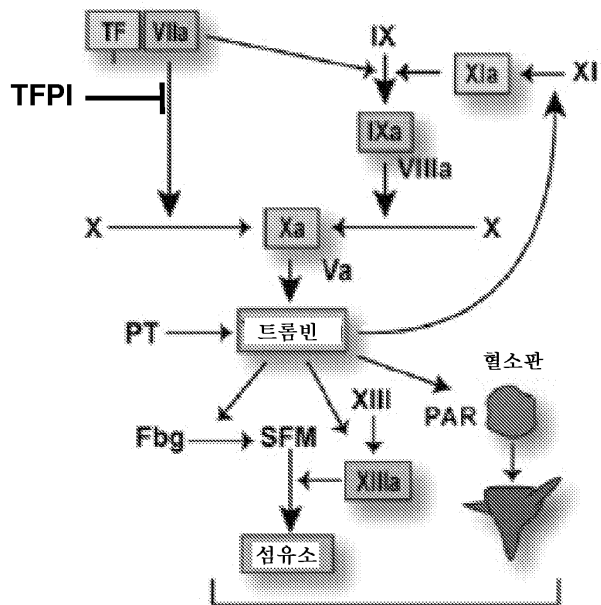
[0418] 다음 실시예는 본 발명의 펩티드가 펩티드의 물리화학적 또는 약동학 특성을 향상시키는 모이어티의 첨가에 의해 변형될 수 있음을 입증한다. 아래에 예시된 바와 같이, 본원에 기재된 펩티드에 대한 40 kDa PEG의 첨가는 펩티드의 약동학 거동을 극적으로 개선하였다.

[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-FQSKGNFVDGYFERL-Aib-AKL-NH₂ (서열 166) 및 (JBT1587) Ac-FQSKGNFVDGYFERL-Aib-AKLC-NH₂ (서열 167)을 각각 PEG를 사용한 N-말단 및 C-말단 변형을 위해 사용하였다. AOA-FQSKGNFVDGYFERL-Aib-AKL-NH₂ (서열 166) 및 Ac-FQSKGNFVDGYFERL-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-FQSKGNFVDGYFERL-Aib-AKL-NH₂ (JBT0740) (서열 66)에 비해 유사한 친화도를 보인다.

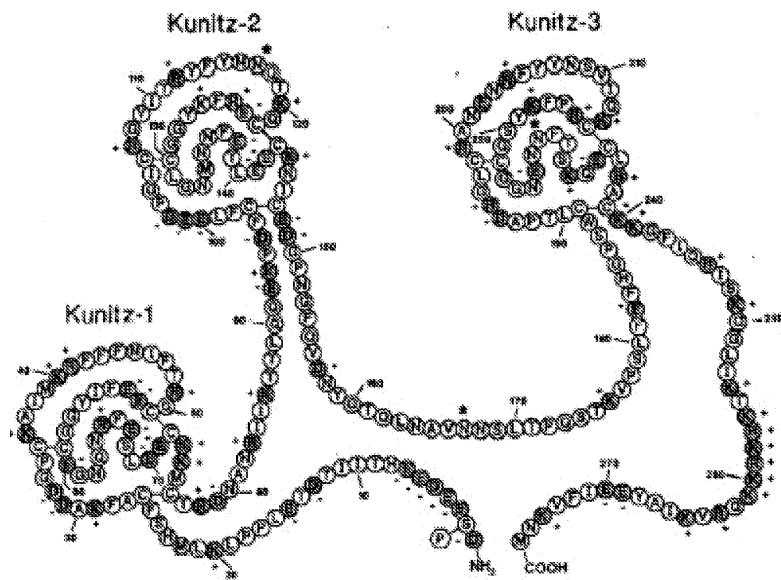
[0420] 생성되는 PEG화된 펩티드는 마우스에서 유의하게 증가된 혈장 안정성 및 지속된 혈장 반감기를 나타냈다. 도 31은 C-말단에서 PEG화된 펩티드 JBT1855 (Ac-FQSKGNFVDGYFERL-Aib-AKLC(PEG(40kD))-NH₂) (서열 252)에 비해 유리 펩티드 JBT0740 (Ac-FQSKGNFVDGYFERL-Aib-AKL-NH₂) (서열 66)의 약동학 분석의 결과를 예시한다. 비PEG화된 펩티드와 달리, PEG화 펩티드는 투여의 100분 후에 마우스 혈장 내에 고농도로 존재한다. 비PEG화된 펩티드는 혈장으로부터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

도면

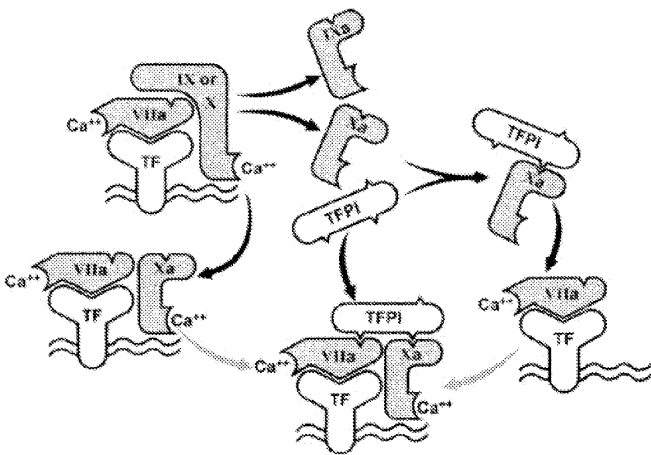
도면1



도면2



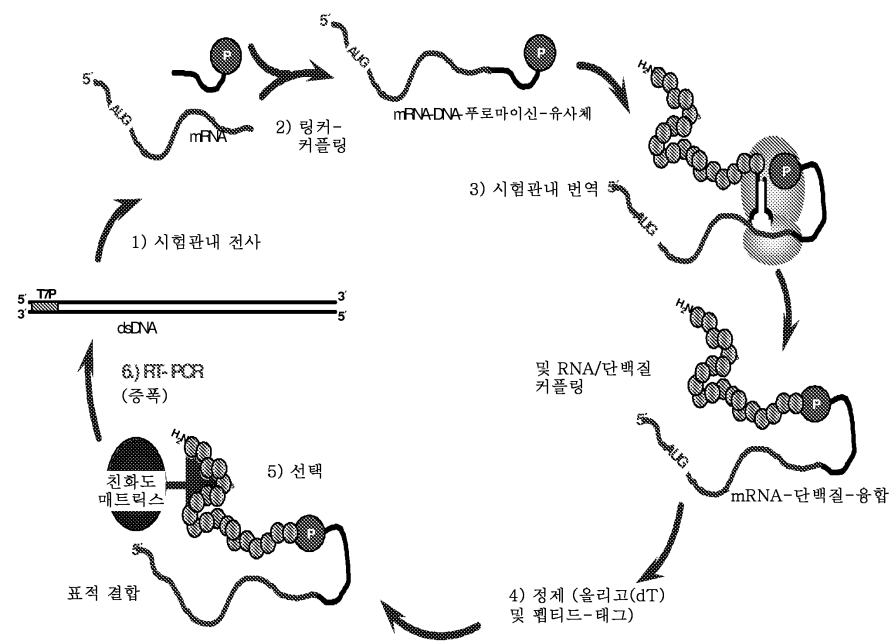
도면3



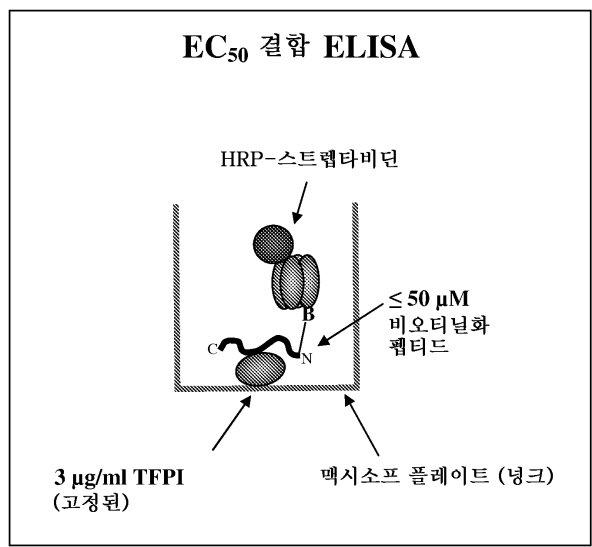
도면4

기본 서열 JBT0293	FQSKKNVFVFGYFERLAKL	(서열 256)
JBT0294	Ac- <u>Y</u> QSKKNVFVFGYFERLAKL-NH2	(서열 257)
JBT0295	Ac-F <u>S</u> SKKNVFVFGYFERLAKL-NH2	(서열 713)
JBT0296	Ac-FQ <u>N</u> SKKNVFVFGYFERLAKL-NH2	(서열 407)
JBT0297	Ac-FQSK <u>N</u> NVFVFGYFERLAKL-NH2	(서열 183)
JBT0298	Ac-FQSK <u>Q</u> NVFVFGYFERLAKL-NH2	(서열 747)
JBT0299	Ac-FQSKKNVF <u>A</u> FGYFERLAKL-NH2	(서열 408)
JBT0300	Ac-FQSKKNVF <u>S</u> FGYFERLAKL-NH2	(서열 409)
JBT0301	Ac-FQSKKNVF <u>T</u> FGYFERLAKL-NH2	(서열 410)
JBT0302	Ac-FQSKKNVFV <u>A</u> GYFERLAKL-NH2	(서열 258)
JBT0303	Ac-FQSKKNVFV <u>D</u> GYFERLAKL-NH2	(서열 184)
JBT0304	Ac-FQSKKNVFV <u>L</u> GYFERLAKL-NH2	(서열 259)
JBT0305	Ac-FQSKKNVFV <u>Q</u> GYFERLAKL-NH2	(서열 260)
JBT0306	Ac-FQSKKNVFV <u>S</u> GYFERLAKL-NH2	(서열 185)
JBT0307	Ac-FQSKKNVFV <u>Y</u> GYFERLAKL-NH2	(서열 261)
JBT0308	Ac-FQSKKNVFVFGY <u>K</u> ERLAKL-NH2	(서열 411)
JBT0309	Ac-FQSKKNVFVFGY <u>Y</u> ERLAKL-NH2	(서열 412)
JBT0310	Ac-FQSKKNVFVFGYF <u>D</u> RLAKL-NH2	(서열 262)
JBT0311	Ac-FQSKKNVFVFGYFERLAK <u>N</u> -NH2	(서열 748)

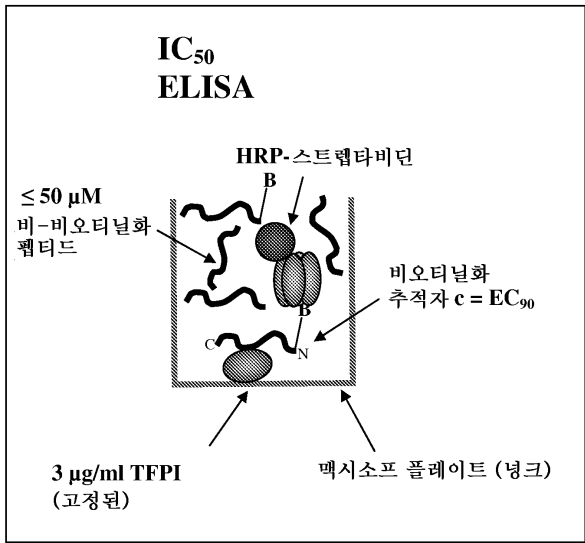
도면5



도면6a



도면6b

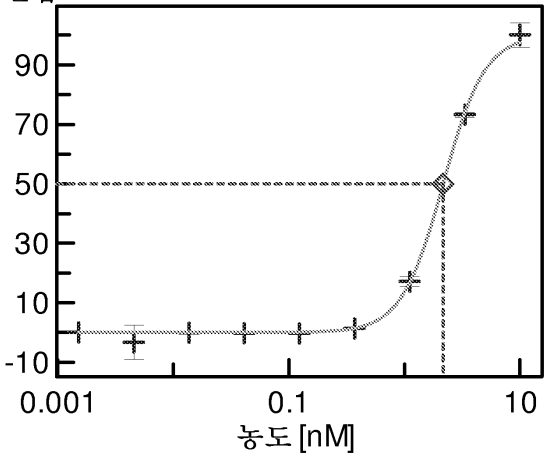


도면7

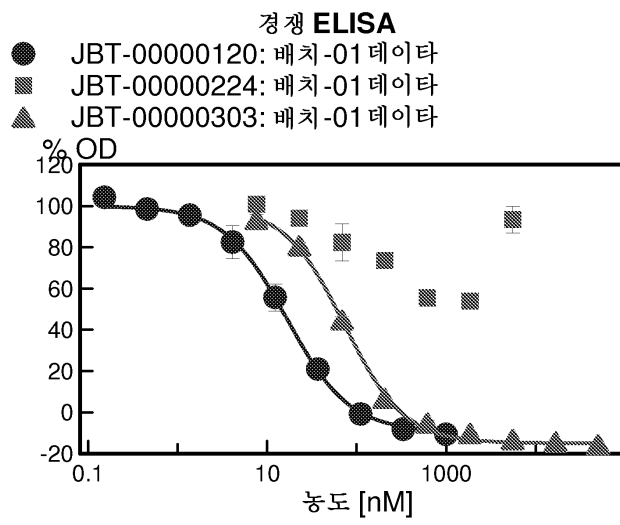
JBT-00000132: 배치-02

+ EC₅₀ 데이터

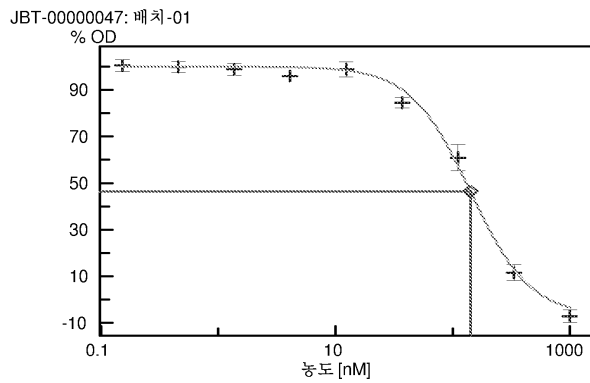
결합 %



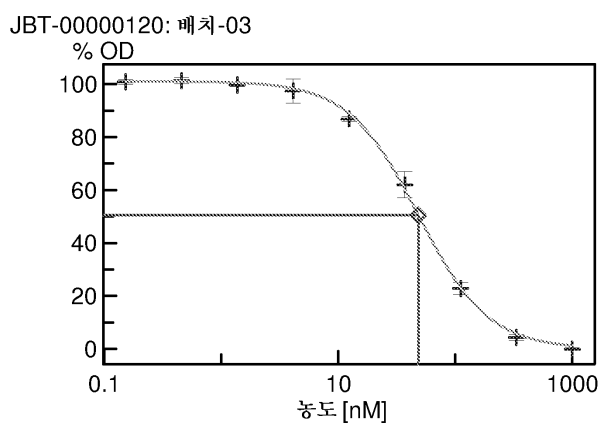
도면8a



도면8b

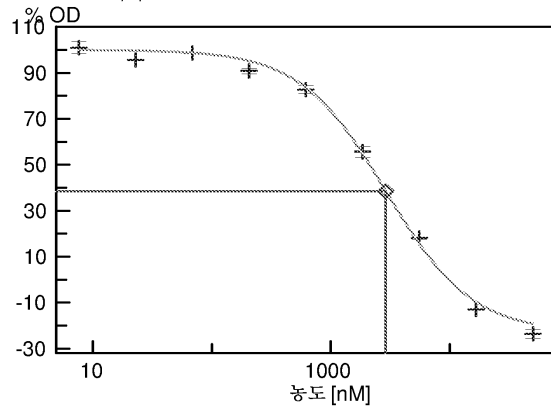


도면8c

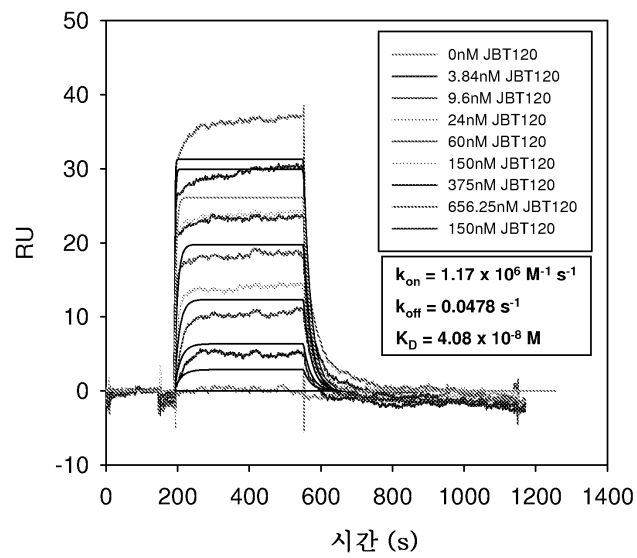


도면8d

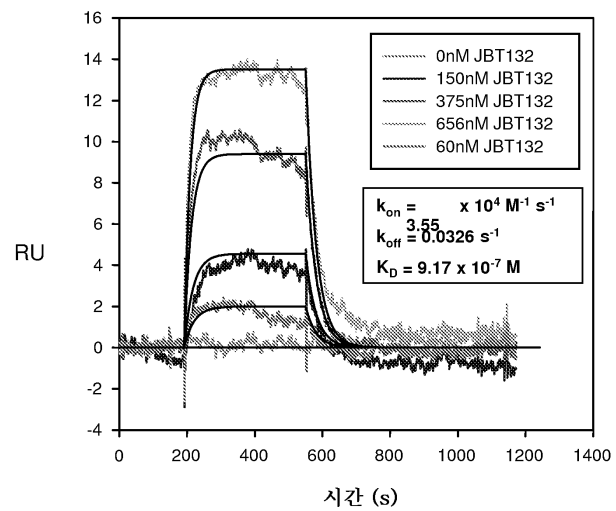
JBT-00000122: 배치-01



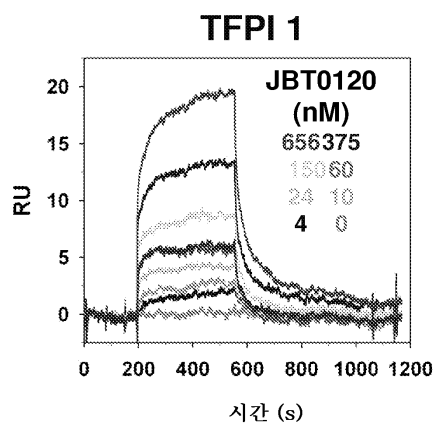
도면9a



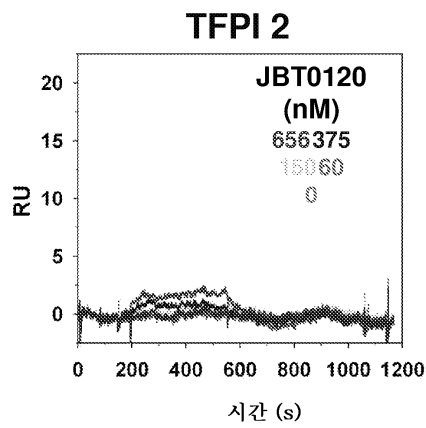
도면9b



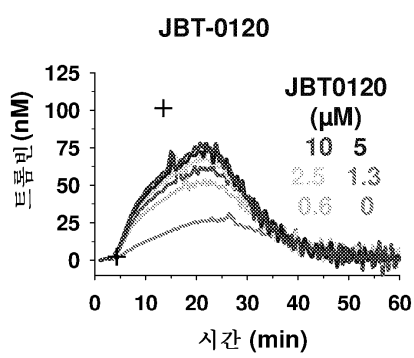
도면10a



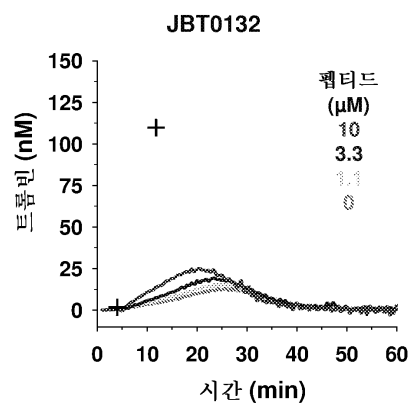
도면10b



도면11a



도면11b



도면12a

JBT-0047		FXa의 억제에 대한 억제 특성			TFPI에 대한 억제 특성			인자 IIa 농도		
펩티드	시열	EC ₅₀ (μM)	% 억제 (Max)	% 억제 (2.5 μM)	EC ₅₀ (μM)	% 억제 (2.5 μM)	유도된 FVII/FVIIa EA (mIU/mL)	FVII (mIU/mL)	Conc: 10 μM	Conc: 10 μM
JBT0047	Ac-SGVGRLLQVAFQSKKNVFVFGYTERLRRAKLTS-NH ₂ (SEQ ID NO: 253)	---		NA	---	NA	123	122		
		---		NA	1.23	NA				
		---		NA	---	NA				
		0.72	82.4	68	2.98	16				
		---		NA						
		---		49						
JBT0047	Ac-SGVGRLLQVAFQSKKNVFVFGYTERLRRAKLTS-NH ₂ (SEQ ID NO: 253)	---		NA	1.37	20	128	289		68
		1.33	63.10	35	1.46	26				
							160			
JBT0047	Ac-SGVGRLLQVAFQSKKNVFVFGYTERLRRAKLTS-NH ₂ HCl (SEQ ID NO: 253)						155			

도면12b

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

도면12c

		---			27	---	13	123	53	
JB10132	비오 램-1ids-FQSKKNVFVFQYFERLRAKL-NH2 (SEQ ID NO: 965)	---			30	---	11	117		
JB10133	비오 램-1ids-QSKKNVFVFQYFERLRAKL-T-NH2 (SEQ ID NO: 966)	---			NA	0.34	9	28	67	
JB10134	비오 램-1ids-QSKKNVFVFQYFERLRAK-NH2 (SEQ ID NO: 967)	---			15	---				
		---			NA	---	3	11	--	
		---			5					
JB10155	Ac- KKSQVGRLQVAFQSKKNVFVFQYFERLRAKL TSKK-NH2 (SEQ ID NO: 8)	---			74	0.38	33	49		
		0.97	77.70		54			67		
JB10156*	Ac- VVEKLTIVQLSFLNRRRISQYAGFKGAGKV- NH2 (SEQ ID NO: 742)	---			0	---	18	--		
						1.49	14			
JB10157*	Ac- RVFLYFSQKAGGLVKLVERQAFQINVSQFR- NH2 (SEQ ID NO: 743)	---			0	---	12	--		
						---	9			
						2.77	9			
JB10158	Ac- KKSQVGRLQVAFQSKKNVFVFQYFERLRAKK K-NH2 (SEQ ID NO: 9)	---			34	---	23	30		
		4.26	88.20		35					
JB10159	Ac-	---			0	---	18	inhib		

12d면도

	KKSGVGRLQVAFQSKKNVFVGYFERLKK-NH2 (SEQ ID NO: 744)				---	22			
JBT0160	Ac-KKSGVGRLQVAFQSKKNVFVGYHKK-NH2 (SEQ ID NO: 745)	---		0	---	22	inhib		
JBT0161	Ac-KKSGVGRLQVAFQSKKNVFVEKK-NH2 (SEQ ID NO: 746)	---		0	---	6	inhib		
JBT0162	Ac-KKGRLQVAFQSKKNVFVGYFERLRAKLTSKK-NH2 (SEQ ID NO: 10)	---		68	0.28	34	54		
JBT0163	Ac-KKQVAFQSKKNVFVGYFERLRAKLTSKK-NH2 (SEQ ID NO: 11)	---		66	0.89	31	69		
JBT0164	Ac-KKFFQSKKNVFVGYFERLRAKLTSKK-NH2 (SEQ ID NO: 12)	---		55	2.68	24	39		
		---		50					
JBT0165	Ac-KKKKNVFVGYFERLRAKLTSKK-NH2 (SEQ ID NO: 712)	1.74	71.24	43					
JBT0166	비오틴-Tds-KKFQSKKNVFVGYFERLRAKLKK-NH2 (SEQ ID NO: 968)	---		71	1.95	36	inhib		
		---		58					
JBT0167*	비오틴-Tds-QKNAKFTLFEISLRQVKFVFR-NH2 (SEQ ID NO: 969)	2.60	85.60	50					
		---		0	---	21	--		

도면12e

[illegible]

도면12f

JBT0293	Ac-FQSKKNVVFVGYFEERLRAKL-NH2 (SEQ ID NO: 256)	---		28	---	3				
		1.32	40.6	27	2.93	14	147		71	
		1.69	44.11	27	---	13	135			
		---		29	---	15	132			
		1.94	39.5	22	---	16				
JBT0293	Ac-FQSKKNVVFVGYFEERLRAKL-NH2 (SEQ ID NO: 256)	---		27	1.62	16				
		5.37	78.1	26						
JBT0294	Ac-YQSKKNVVFVGYFEERLRAKL-NH2 (SEQ ID NO: 257)	---		46		12	122			
		4.07	101.07	40	5.31	9	169		82	
JBT0295	Ac-FSSKKNVVFVGYFEERLRAKL-NH2 (SEQ ID NO: 713)	---		2		13	inhib			
					1.80	10				
JBT0296	Ac-FQNKKNVVFVGYFEERLRAKL-NH2 (SEQ ID NO: 407)	---		25		6	79			
		4.91	69.35	19	7.83	10				
JBT0297	Ac-FQSKKNVVFVGYFEERLRAKL-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-FQSKQNVVFVGYFEERLRAKL-NH2 (SEQ ID NO: 747)	---		45	---	15	109			
		1.83	71.69	42	---	17				

도면12g

JBT0299	Ac-FQSKKNVFAGYFERLRACL-NH2 (SEQ ID NO: 408)	---		13	---	5	63		
		15.31	73.69	9	---	6			
JBT0300	Ac-FQSKKNVFSFGYFERLRACL-NH2 (SEQ ID NO: 409)	---		7	---	3	40		
JBT0301	Ac-FQSKKNVFTGYFERLRACL-NH2 (SEQ ID NO: 410)	---		9	---	0	49		
JBT0302	Ac-FQSKKNVFVAGYFERLRACL-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-FQSKKNVFVDGYFERLRACL-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-FQSKKNVFVDGYFERLRACL-NH2 (SEQ ID NO: 184)	1.76	77.5	45	8.8	9			
JBT0304	Ac-FQSKKNVFLGYFERLRACL-NH2 (SEQ ID NO: 259)	---		35	---	7	138		
		2.95	75.15	32	12.87	7			
JBT0305	Ac-FQSKKNVFQGYFERLRACL-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-FQSKKNVFSGYFERLRACL-NH2 (SEQ ID NO: 185)	---		42	---	3	197		
		3.56	94.28	37	---	2	204	174	

도면12h

			3.89	71.4	28	---	5	247		
JB10307	Ac-FQSKKNVVFVGYFEERLRAKL-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		
JB10308	Ac-FQSKKNVVFVGYKEERLRAKL-NH2 (SEQ ID NO: 411)	---		9		---	4	133		
JB10309	Ac-FQSKKNVVFVGYERLRAKL-NH2 (SEQ ID NO: 412)	---		21		---	7	123		
		4.50	66.79	19		8.55	7			
JB10310	Ac-FQSKKNVVFVGYFDRLRAKL-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			
JB10311	Ac-FQSKKNVVFVGYFEERLRAKN-NH2 (SEQ ID NO: 748)	---		5		---	5	27		
		44.92	68.81	5		3.72	10			
JB10335	Ac-FQSKKNVVFVGYFEERLRAK-NH2 (SEQ ID NO: 749)	6.2	16.4	2		10.48	5	28		
JB10336	Ac-FQSKKNVVFVAGYFDRLRAKL-OH (SEQ ID NO: 263)	6.52		19		12.13	5	186		
								181		
JB10337	Ac-FQSKKNVVFVVDGYFDRLRAKL-NH2 (SEQ ID NO: 16)	0.71	69.1	51		13.33	15	219		
JB10338	Ac-FQSKKNVVFVQGYFDRLRAKL-NH2 (SEQ ID NO: 17)	1.12	60.9	40		8.42	9	197		
JB10339	Ac-FQSKKNVVFVSGYFDRLRAKL-NH2 (SEQ ID NO: 17)	1.22	66.9	42		19.1	9	230		

도면12i

[illegible]

도면12j

JB10379	Ac-FQSKKNVFTGYFERLRAKL-NH2 (SEQ ID NO: 22)	---	3.13	81.8	31	---	47.85	12	226		
JB10380	Ac-FQSKKNVFTGYFERLRAKL-NH2 (SEQ ID NO: 191)	---	---	---	27	---	99	6	199		
JB10381	Ac-FQSPKNVFTGYFERLRAKL-NH2 (SEQ ID NO: 265)	---	2.59	73.1	34	7.58	10	173			
JB10385	Ac-FQSKKNVFTGYFERLRAKL-NH2 (SEQ ID NO: 672)	no fit	---	---	34	no fit	11	---			
JB10386	Ac-FQSKKNVFTGYFERLRAKL-NH2 (SEQ ID NO: 415)	---	---	---	6	---	5	85			
JB10388	Ac-FQSKKNVFTGYFERLRAKL-NH2 (SEQ ID NO: 192)	---	---	---	25	---	6	185			
JB10389	Ac-FQSKKNVFTGYFERLRAKL-NH2 (SEQ ID NO: 673)	4.34	72.5	26	no fit	9	---	34			
JB10390	Ac-FQSKKNVFTGYFERLRAKL-NH2 (SEQ ID NO: 674)	---	---	0	---	5	28				
JB10391	Ac-FQSKKNVFTGYFERLRAKL-NH2 (SEQ ID NO: 266)	---	---	12	---	1	178				
JB10392	Ac-FQSKKNVFTGYFERLRAKL-NH2 (SEQ ID NO: 23)	7.02	73.8	18	---	1	---	228			
JB10393	Ac-FQSKKNVFTGYFERLRAKL-NH2 (SEQ ID NO: 23)	2.48	74.4	37	---	6	---	268			

도면 12k

[illegible]

도면121

	(SEQ ID NO: 974)								
JBT0405	비오람-FQSKKNVVFQYFERLRAKL-NH2 (SEQ ID NO: 975)	0.86	81.33	59	---	15	142		
JBT0406	Ac-Tids-FQSKKNVVFQYFERLRAKL-NH2 (SEQ ID NO: 268)	---		28	---	9	114		

도면13a

JBT-0049		FXa의 억제 활성			TFPI에 의한 외인성 테나제 억제			인자 IIa 농도		
펠리드	시열	EC ₅₀ (μM)	%억제 (Max)	%억제 (2.5μM)	EC ₅₀ (μM)	%억제 (2.5μM)	유도된 FVIIII 결핍 (mIU/ml) Conc: 10μM	FVIIII 결핍 (mIU/ml) Conc: 10μM	FIX 결핍 (mIU/ml) Conc: 10μM	
JBT0049	Ac- SGNTFVDERLLYFLTIGNMGMVAAQLKFRIS- NH2 (SEQ ID NO: 3025)	---		NA	---	NA		12	12	
		---		NA	---	17	36	44		
		---		NA	---	11				
		---		NA						
JBT0049	Ac- SGNTFVDERLLYFLTIGNMGMVAAQLKFRIS- NH2 (SEQ ID NO: 3025)	---		10	---	13	49	17		
		---		19	---	8	42			
							53			
JBT0053	비오린-Tds- SGNTFVDERLLYFLTIGNMGMVAAQLKFRIS- NH2 (SEQ ID NO: 3006)	---		NA	---	11				
		---		NA						
		---		18						
JBT0057	Ac- SGNTFVDERLLYFLTIGNMGMVAAQLKFRIS- Tds-라이신(비오린)-NH2 (SEQ ID NO: 3018)	---		NA	---	15				
		---		NA						
		---		15						
JBT0035	비오린-Tds-LIYFLTIGNMGMVAAQLKFR-NH2 (SEQ ID NO: 3021)	---		NA	---	10 (0.625μ				

도면13c

JB10198	Ac- KKDERLLYFLITGNMGMYAAQLKFRISK- NH2 (SEQ ID NO: 3077)	---		0	---	17			
JB10199	Ac-KKLLYFLITGNMGMYAAQLKFRISK- NH2 (SEQ ID NO: 3078)	---		0	---	20			
JB10200	Ac-KKFLITGNMGMYAAQLKFRISK-NH2 (SEQ ID NO: 3079)	---		0	---	9			
JB10201	Ac-KKLLYFLITGNMGMYAAQLKFRISK-NH2 (SEQ ID NO: 3080)	---		2	---	23			
JB10202	Ac-KKLLYFLITGNMGMYAAQLKFRISK-NH2 (SEQ ID NO: 3081)	---		0	---	15			
JB10203	Ac-KKYFLITGNMGMYAAQLKFRISK-NH2 (SEQ ID NO: 3082)	---		0	---	7			
JB10204	Ac-KKSGNTFVDERLLYFLITGNMGKK-NH2 (SEQ ID NO: 3060)	---		0	---	5			
JB10243	Ac- SGDTFVDERLLYFLITGNMRMYAVQLKFRIS- NH2 (SEQ ID NO: 3085)	0.51	41.53	37	---	37			
JB10244	Ac- SGDTFVDERLLYFLITGNMRMYAVQLKFRIS- NH2 (SEQ ID NO: 3086)	---		50	---	37			
JB10245	Ac- SGDTFVDERLLYFLITGDMRMYYAVQLKFRIS- NH2 (SEQ ID NO: 3087)	---		45	---	NA			
		0.44	50.53	44	---	21			
JB10344	Ac-TFVDERLLYFLITGNMGMYAAQLKF-NH2 (SEQ ID NO: 3038)	---		2	---	1	---		

도면13d

JB10345	Ac-FVDERLLYHLITGNMGMYAAQLKF-NH2 (SEQ ID NO: 3039)	---		2	---	2	---		
JB10346	Ac-VDERLLYHLITGNMGMYAAQLKF-NH2 (SEQ ID NO: 3034)	---		0	---	2	---		
JB10347	Ac-ITFVDERLLYHLITGNMGMYAAQLK-NH2 (SEQ ID NO: 3040)	---		2	---	4	---		
JB10348	Ac-ITFVDERLLYHLITGNMGMYAAQ-NH2 (SEQ ID NO: 3084)	---		0	---	2	---		

도면14a

JBT-0050		FXa의 억제에 진행 곡선			TFPI에 의한 외인성 테나제 억제			인자 IIa 농도		
펩티드	서열	EC ₅₀ (μ M)	%억제 (Max)	%억제 (2.5 μ M)	EC ₅₀ (μ M)	%억제 (2.5 μ M)	유도된 FVIIII 결핍 FEIBA EA (mIU/ml) Conc: 10 μ M	FVIIII 결핍 (mIU/ml) Conc: 10 μ M	FIX 결핍 (mIU/ml) Conc: 10 μ M	
JBT0050	Ac-SGRGCTKVVIVFTIRHNKLIQYERRRYNCT-S-NH ₂ (SEQ ID NO: 3047)	---		NA	---	NA		81	21	
		---		NA	0.14	25	32	38		
		---		NA	---	NA	46			
		---		NA	---	NA	46			
		0.95	56.6	39	0.05	33	49			
		---		NA						
		1.14	58.99	35						
JBT0050	Ac-SGRGCTKVVIVFTIRHNKLIQYERRRYNCT-S-NH ₂ (SEQ ID NO: 3047)	---		33	---	28	23			
		1.07	35.6	26	0.14	19	27	36		
JBT0054	비오-탄-Tds-SGRGCTKVVIVFTIRHNKLIQYERRRYNCT-S-NH ₂ (SEQ ID NO: 3002)	---		NA	0.16	NA				
		0.99	56.1	41	0.45	31				
JBT0058	Ac-SGRGCTKVVIVFTIRHNKLIQYERRRYNCT-S-Tds-라-이-인(비오-탄)-NH ₂ (SEQ ID NO: 3003)	---		NA	---	NA				
JBT0129	Ac-SGRGCTKVVIVFTIRHNKLIQYERRRYNCT-S-NH ₂ ; Cys, Cys, Cys (SEQ ID NO: 3026)	---		NA	0.16	21	27			

도면14b

		---		32			31	18	
JBT0130	비오람-Tids-SGRGCTKVVVFTFRHNKLIgyERRYNCTs-NH2; cycl. C6-C28 (SEQ ID NO: 3001)	---		NA	0.15	21			
		---		34					
JBT0139	비오람-Tids-GRGCTKVVVFTFRHNKLIgy-NH2 (SEQ ID NO: 3008)	---		NA	---	9	--	--	
		---		⁷ (0.625 _μ M)	0.10	15			
JBT0140	비오람-Tids-GCTKVVVFTFRHNKLIgyER-NH2 (SEQ ID NO: 3010)	---		0	---	10	18	25	
					0.05	NA			
JBT0141	비오람-Tids-CTKVVVFTFRHNKLIgyERR-NH2 (SEQ ID NO: 3009)	---		0	---	14	34	55	
					0.04	NA			
JBT0142	비오람-Tids-1KVVVFTFRHNKLIgyERRY-NH2 (SEQ ID NO: 3022)	---		0	---	7	12	--	
					1.96	12			
JBT0143	비오람-Tids-KVVVFTFRHNKLIgyERRYN-NH2 (SEQ ID NO: 3023)	---		7	---	16	19	--	
		---		6	0.42	17			
JBT0144	비오람-Tids-VVVFTFRHNKLIgyERRYN-C-NH2 (SEQ ID NO: 3011)	---		NA	---	18	--	--	
		---		0	0.03	---			
JBT0145	비오람-Tids-VVVFTFRHNKLIgyER-NH2 (SEQ ID NO: 3024)	---		0	---	5	--	--	
JBT0205	Ac-KKSGRGCTKVVVFTFRHNKLIgyERRYNCTSK K-NH2 (SEQ ID NO: 3029)	---		40	---	34	134		
		1.64	87.46	49	0.11	36			
JBT0206*	Ac-TNYTGSSEKCIIRVTIRRYTLGVRIQCPIIKGS-	---		0	---	22	--		

도면14d

JB10218	Ac-KKVVVFTFRHNKLIgyERRYNCK-NH2 (SEQ ID NO: 3063)	---		4	1.18	12			
		---		12					
JB10219	Ac-KKVVVFTFRHNKLIgyERRYNCK-NH2 (SEQ ID NO: 3050)	---		8	---	17	29		
		---		22	0.10	17			
JB10220	Ac-KKVVFTFRHNKLIgyERRYNCK-NH2 (SEQ ID NO: 3064)	---		0	---	15			
					---	16			
JB10349	Ac-GCTKVVVFTFRHNKLIgyERRYNCT-NH2 (SEQ ID NO: 3041)	---		19	---	28	54		
		1.63	27.6	17	0.18	13			
JB10350	Ac-CTKVVVFTFRHNKLIgyERRYNCT-NH2 (SEQ ID NO: 3042)	---		21	---	26	55		
		1.65	33.8	18	0.27	16			
JB10351	Ac-TKVVVFTFRHNKLIgyERRYNCT-NH2 (SEQ ID NO: 3043)	---		1	---	19	30		
		no fit		0	0.21	8			
JB10352	Ac-GCTKVVVFTFRHNKLIgyERRYNCT-NH2 (SEQ ID NO: 3044)	---		24	---	24	65		
		1.34	26.3	19	0.35	18			
JB10353	Ac-GCTKVVVFTFRHNKLIgyERRYNCT-NH2 (SEQ ID NO: 3045)	---		28	---	30	76		
		0.72	24.5	21	0.61	20			

도면15a

JBT-0101			FXa의 억제에 대한 실험 조건			TFPI에 의한 외인성 페나제 억제		인자 IIa 농도		
펠리드	서열	EC ₅₀ (μM)	%억제 (Max)	%억제 (2.5μM)	EC ₅₀ (μM)	%억제 (2.5μM)	유도된 FVIII 결핍 FEIBA EA (mIU/mL)	FVIII 결핍 (mIU/mL)	FIX 결핍 (mIU/mL)	
JBT0052	비오린-Tids- KSGVWQTHPRYFWTMWPDIKGEVIVLFGTS KK-NH2 (SEQ ID NO. 3004)	---		NA	0.22	20	Conc: 10μM			
		---		NA	0.39	23				
JBT0101	Ac- KSGVWQTHPRYFWTMWPDIKGEVIVLFGTS KK-NH2 (SEQ ID NO. 3036)	1.47	57.24	52	NA	NA	65	164	40	
		---		NA	1.42	22				
		2.25	50.13	26	0.24	21				
					---	20				
JBT0101	Ac- KSGVWQTHPRYFWTMWPDIKGEVIVLFGTS KK-NH2 (SEQ ID NO. 3036)	2.01	45.27	26	---	19	68	38		
		---		NA			60			
		---		NA						
		---		NA						
JBT0101	Ac- KSGVWQTHPRYFWTMWPDIKGEVIVLFGTS KK-NH2 (SEQ ID NO. 3036)	1.51	44.8	31						
		---		29	---	19				

도면15b

		---		18	0.25	14			
		1.94	37.47	19	0.61	19			
JB10103	Ac- KKS _{GVWQ} TH _{PRYFW} TM _{WPD} IK _{GEVIVL} FG _{IS} -T _{ds} -K _K 라 _이 지 _(비오원) -NH ₂ (SEQ ID NO: 3005)	---		NA	0.19	21			
		1.69	38.91	24	0.17	17			
JB10176*	Ac- KK _{VS} VT _{IRWS} MY _{GP} IK _{FTW} LE _Q P _{VGWDH} KK-NH ₂ (SEQ ID NO: 3056)	---		0	---	17	150		
					---	16			
JB10177*	Ac- KK _L T _{GDW} T _{YFW} SK _{VIW} GP _G VI _{ERQ} MP _V ST _{FIH} KK-NH ₂ (SEQ ID NO: 3065)	---		4	---	15	--		
					---	10			
					---	10			
JB10178	Ac- KK _{SGVWQ} TH _{PRYFW} TM _{WPD} IK _{GEVIVL} FG _{IK} K-NH ₂ (SEQ ID NO: 3028)			42	---	23	190	80	
		1.51	65.93	42	0.20	26	111		
JB10179	Ac- KK _{SGVWQ} TH _{PRYFW} TM _{WPD} IK _{GEVIVL} KK- NH ₂ (SEQ ID NO: 3066)	---		0	---	14			
JB10180	Ac-K _{SGVWQ} TH _{PRYFW} TM _{WPD} IK _{GEV} KK- NH ₂ (SEQ ID NO: 3067)	---		0	---	5			
JB10181	Ac-K _{SGVWQ} TH _{PRYFW} TM _{WPD} IK _{KK} -NH ₂ (SEQ ID NO: 3068)	---		0	---	2			
JB10182	Ac- KK _{GVWQ} TH _{PRYFW} TM _{WPD} IK _{GEVIVL} FG _{ISK} K-NH ₂ (SEQ ID NO: 3037)	---		39	0.26	27	146		
		0.62	52.16	40					
JB10183	Ac- KK _O TH _{PRYFW} TM _{WPD} IK _{GEVIVL} FG _{ISK} - NH ₂ (SEQ ID NO: 3069)	---		0	---	19			

도면15c

JB10184	Ac-KKPRYFWTMWPDIKGEVIVLFGTSKK-NH2 (SEQ ID NO: 3070)	---		0	---	26			
JB10185	Ac-KKFWTMWPDIKGEVIVLFGTSKK-NH2 (SEQ ID NO: 3057)	---		0	---	16			
JB10186	Ac-KKSGVWQTHPRYFWTMWPDIKGKK-NH2 (SEQ ID NO: 3071)	---		0	---	3			
JB10187	Ac-KKWQTHPRYFWTMWPDIKGEYIKK-NH2 (SEQ ID NO: 3072)	---		0	---	5			
JB10188	Ac-KKIPRYFWTMWPDIKGEVIVLFGKK-NH2 (SEQ ID NO: 3058)	---		0	---	21			
JB10189	Ac-KKYFWTMWPDIKGEVIVLFGTSKK-NH2 (SEQ ID NO: 3059)	---		0	---	17			
JB10354	Ac-KKGVWQTHPRYFWTMWPDIKGEVIVLFGTK K-NH2 (SEQ ID NO: 3088)	---		26	0.62	14			
JB10355	Ac-KKYQTHPRYFWTMWPDIKGEVIVLFGTKK- NH2 (SEQ ID NO: 3089)	2.25	50.46	25	0.56	18			
JB10356	Ac-KKWQTHPRYFWTMWPDIKGEVIVLFGTKK- NH2 (SEQ ID NO: 3090)	---		11	no fit	11			
JB10357	Ac-KKGVWQTHPRYFWTMWPDIKGEVIVLFGKK- NH2 (SEQ ID NO: 3035)	---		30	---	25			
JB10358	Ac-KKGVWQTHPRYFWTMWPDIKGEVIVLFGKK- NH2 (SEQ ID NO: 3046)	2.51	55.65	26	0.58	20			
		---		19	---	27			
		3.26	41.21	15	0.46	16			

도면16a

JB1-0120		FXa의 억제에 대한 실험 조건			TFPI에 의한 외인성 페나제 억제			인자 IIa 농도		
펠리드	시열	EC ₅₀ (μM)	%억제 (Max)	%억제 (2.5μM)	EC ₅₀ (μM)	%억제 (2.5μM)	유도된 FVII 결핍 FEIBA EA (mL/mL) Conc: 10μM	FVIII 결핍 (mL/mL) Conc: 10μM	FIX 결핍 (mL/mL) Conc: 10μM	
JB10120	Ac- SGASRYKWF(CGMRDMKGTMSC)VWVKERY DIS-NH ₂ (SEQ ID NO: 1047)	---		NA	0.94	35	298	374	162	
		0.90	85.30	58	1.84	31				
		1.50	88.65	48						
JB10120	Ac- SGASRYKWF(CGMRDMKGTMSC)VWVKERY DIS-NH ₂ (SEQ ID NO: 1047)	1.50	74.75	43	0.86	45	355			
							258			
		1.29	69.17	43	0.88	45				
JB10120	Ac- SGASRYKWF(CGMRDMKGTMSC)VWVKERY DIS-NH ₂ (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				
		2.64	93.62	43	0.98	43				
JB10120	Ac- SGASRYKWF(CGMRDMKGTMSC)VWVKERY DIS-NH ₂ HCL (SEQ ID NO: 1047)									
JB10124	비오린-Tide- SGASRYKWF(CGMRDMKGTMSC)VWVKERYD TS-NH ₂ (SEQ ID NO: 1290)	1.59	73.59	41	1.26	36				
JB10247	Ac-	---		43	---	44	273			

도면16b

	SGASRYKWF CGMRDMKGTMSCVWVKERYD TS-NH2 (SEQ ID NO: 1213)	0.79	50.9	42	0.61	42			
JBT0248	Ac- KKSASRYKWF CGMRDMKGTMSCTVWVKF RYDTSRK-NH2 cye. (SEQ ID NO: 1001)	---		54	---	60	164		
JBT0249	Ac-KKSASRYKWF CGMRDMKGTMSRK-NH2 (SEQ ID NO: 1214)	0.82	76.13	53	0.27	52			
		---		0	---	3	inhib		
					---	17			
JBT0250	Ac-KKSRYKWF CGMRDMKGTMSCVWKK- NH2 (SEQ ID NO: 1201)	---		0	1.06	16			
		---		11	---	20	inhib		
					0.61	19			
					---	17			
JBT0251	Ac-KKKWF CGMRDMKGTMSCVWVKFK- NH2 (SEQ ID NO: 1202)	---		17	0.63	23	inhib		
		0.66	24.03	16			inhib		
		---		11	---	18			
JBT0252	Ac-KKCGMRDMKGTMSCVWVKRYDKK- NH2 (SEQ ID NO: 1215)	---		13	1.02	18	inhib		
		6.27	37.09	11					
JBT0253	Ac-KKMRDMKGTMSCVWVKERYDTSRK-NH2 (SEQ ID NO: 1216)	---		0	---	15	inhib		
					---	23			
					0.55	23			
JBT0319	Ac- SGASRYKWF CGMRDMKGTMSCVWVKERY- NH2 cye (SEQ ID NO: 1002)	0.51	71.07	59	---	56	383	293	
JBT0319	Ac- SGASRYKWF CGMRDMKGTMSCVWVKERY-	0.30	82.38	72	---	60	466		

도면16d

	ID NO: 1225)	---		0	---	5	--		
JBT0331	Ac-MRDMKGTMSCVWVKERYDTIS-NH2 (SEQ ID NO: 1225)	---							
JBT0332	Ac-SRYKWFCCGMKDMKGTMSCVW-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-CGMKDMKGTMSCVWVKERYD-NH2 (SEQ ID NO: 1227)	---		0	---	3	--		
JBT0409	Ac-SGASRYKWFSGMRDMKGTMISSVWVKERYDTIS-NH2 (SEQ ID NO: 1204)	---		0	---	5	inhib		
JBT0410	Ac-SGASRYKWFSG-Nle-RD-Nle-KGT-Nle-SSVWVKERYDTIS-NH2 (SEQ ID NO: 1208)	---		0	---	7	inhib		
JBT0411	Ac-SGASRYKWFCCG-Nle-RD-Nle-KGT-Nle-SCVWVKERYDTIS-NH2 (SEQ ID NO: 1104)	---		11	---	24	97		
JBT0412	Ac-KWFCG-Nle-RD-Nle-KGT-Nle-SCVWVKF-NH2 (SEQ ID NO: 1209)	---		7	---	12	46		
JBT0413	Ac-KWFSGMRDMKGTMISSVWVKF-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-SRYKWFCCGMKDMKGTMSCVWVKF-NH2 (SEQ ID NO: 1003)	---		59	---	43	359		
		---		66					
		0.38	74.56	61	0.19	52			
JBT0416	Ac-SRYKWFCCG-Nle-RD-Nle-KGT-Nle-SCVWVKF-NH2 (SEQ ID NO: 1077)	---		52	---	46	256		
JBT0417	Ac-SRYKWFSGMRDMKGTMISSVWVKF-NH2 (SEQ ID NO: 1229)	---		2	---	11	inhib		
		no fit		0	no fit	6			

도면16e

JB10418	Ac-SRYKWFSG-NIe-RD-NIe-KGT-NIe-SSVWVKF-NH2 (SEQ ID NO: 1210)	---		4	---	11	inhib		
JB10435*	Ac-RKRDVSGKMIQWSGGSKWFRCLADMMITYY SVT-NH2 (SEQ ID NO: 1211)	---		0	---	5			
JB10436*	Ac-RWSGKSTYSICDAMVRRMGMKCFSEFGWTDV YK-NH2 (SEQ ID NO: 1212)	---		0	---	0			

도면17a

JB1-0121	서열	FXa의 억제에 대한 억제			TFPI에 대한 억제			인자 IIa 농도		
		EC ₅₀ (μM)	%억제 (Max)	%억제 (2.5μM)	EC ₅₀ (μM)	%억제 (2.5μM)	유도된 FV/III 결핍 FV/III 결핍 (mIU/mL)	FVIII 결핍 (mIU/mL)	FIX 결핍 (mIU/mL)	
JBT0121	Ac-SGGRKKHKHFLRSNGKPSRALCSMHFWRWSTS-NH2 (SEQ ID NO: 3091)	---		NA	---	15	22	37	25	
		0.08	14.44	14	0.17	11	inhib			
		---		8	---	19				
JBT0125	비오틸-Ttds-SGGRKKHFLRSNGKPSRALCSMHFWRWSTS-NH2 (SEQ ID NO: 3092)	0.10	17.22	15	0.45	9				
JBT0419	Ac-SGGRKKHKHFLRSNGKPSRALSSMHFWRWSTS-NH2 (SEQ ID NO: 3093)	---		6	---	7				
JBT0420*	Ac-KGSSRSCHNALKTHSWMSPFRRRGWSLHFK-NH2 (SEQ ID NO: 3094)	---		3	---	10	inhib			
JBT0421*	Ac-KSRSGFWHAWSHRTIRPMKSRLLHLGKFSNSSG-NH2 (SEQ ID NO: 3095)	---		3	---	5				
JBT0422	Ac-SGGRKKHKHFLRSNGKPSRALSSMHFWRW-NH2 (SEQ ID NO: 3096)	---		4	---	11	inhib			
JBT0423	Ac-SGGRKKHKHFLRSNGKPSRALSSMHF-NH2 (SEQ ID NO: 3097)	---		2	---	1	inhib			
JBT0424	Ac-SGGRKKHKHFLRSNGKPSRALSS-NH2 (SEQ ID NO: 3097)	---		1	---	0	--			

도면17b

	ID NO: 3098)								
JBT0425	Ac-SGGRKHKHFLRSNGKPSRA-NH2 (SEQ ID NO: 3099)	---		3	---	0			
JBT0426	Ac-RKHKHF.LRSNGKPSRAL.SSMHFWRWSTS-NH2 (SEQ ID NO: 3100)	---		2	---	8	inhib		
JBT0427	Ac-KHFLRSNGKPSRAL.SSMHFWRWSTS-NH2 (SEQ ID NO: 3101)	---		0	---	0			
JBT0428	Ac.LRSNGKPSRAL.SSMHFWRWSTS-NH2 (SEQ ID NO: 3102)	---		2	---	1	--		
JBT0429	Ac-NGKPSRAL.SSMHFWRWSTS-NH2 (SEQ ID NO: 3103)	---		0	---	0			
JBT0430	Ac-SGGRKHKHFLRSNGKPSRAL-NH2 (SEQ ID NO: 3104)	---		0	---	0			
JBT0431	Ac-RKHKHF.LRSNGKPSRAL.SSM-NH2 (SEQ ID NO: 3105)	---		2	---	8			
JBT0432	Ac-KHFLRSNGKPSRAL.SSMHFW-NH2 (SEQ ID NO: 3106)	---		3	---	1	--		
JBT0433	Ac.LRSNGKPSRAL.SSMHFWRWSTS-NH2 (SEQ ID NO: 3107)	---		0	---	1	--		
JBT0434	Ac-SNGKPSRAL.SSMHFWRWSTS-NH2 (SEQ ID NO: 3108)	---		0	---	0			

도면18a

JBT-0122		FXa의 억제제의 진행 곡선			TFPI에 의한 외인성 테나제 억제		인자 IIa 농도		
펠리드	서열	EC ₅₀ (μ M)	%억제 (Max)	%억제 (2.5 μ M)	EC ₅₀ (μ M)	%억제 (2.5 μ M)	유도된 FVIIII 결합 FEIBA EA (mL/mL) Conc: 10 μ M	FVIIII 결합 (mL/mL) Conc: 10 μ M	FIX 결합 (mL/mL) Conc: 10 μ M
JBT0122	Ac- SGYASFPPLAVQIHVSKRSKEMALARLYYKTS- 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	---	9	183	160	
		---	---	9	---	9	210		
		---	---	11					
JBT0122	Ac- SGYASFPPLAVQIHVSKRSKEMALARLYYKTS- NH2*HCL (SEQ ID NO: 2002)	15.81	64.12	6	6.70	7			
JBT0126	비오린-TIdS- SGYASFPPLAVQIHVSKRSKEMALARLYYKTS- NH2 (SEQ ID NO: 2498)	---		NA	5.05	5			
JBT0221	Ac- KKSQYASFPPLAVQIHVSKRSKEMALARLYYK TSKK-NH2 (SEQ ID NO: 2003)	14.1	88.4	17	3.37	19	218		
		---		29					
JBT0222*	Ac- MKSRSLGLAYFAKHSSLEVLQTRKVAAPYY- NH2 (SEQ ID NO: 2127)	---		0	---	4	--		

도면18b

JBT0223*	Ac- KMQLRVYASTAHRSYLLGSSLFPKYAEVKA- NH2 (SEQ ID NO: 2297)	---		0	---	5	4	--			
					---	1					
					---	3					
JBT0224	Ac- KKSQYASFPLAVQLHVSRSKSKEMALARLYYK K-NH2 (SEQ ID NO: 2298)	---		14	3.49	18		191			
		---		26				203	162		
JBT0225	Ac- KKSQYASFPLAVQLHVSRSKSKEMALARKK- NH2 (SEQ ID NO: 2128)	---		9	---	0		55			
		---		12							
JBT0226	Ac-KKSQYASFPLAVQLHVSRSKSKEMAKK- NH2 (SEQ ID NO: 2299)	---		4	---	0					
		---		6							
JBT0227	Ac-KKSQYASFPLAVQLHVSRSKSK-K-NH2 (SEQ ID NO: 2300)	---		0	---	5					
JBT0228	Ac- KKASFPLAVQLHVSRSKSKEMALARLYYKTSK K-NH2 (SEQ ID NO: 2016)	---		4	6.93	9					
		---		21							
JBT0229	Ac- KKPLAVQLHVSRSKSKEMALARLYYKTSK- NH2 (SEQ ID NO: 2129)	---		0	---	0					
JBT0230	Ac-KKVQLHVSRSKSKEMALARLYYKTSK- NH2 (SEQ ID NO: 2301)	---		0	---	0					
					---	0					
JBT0231	Ac-KKHVSRSKSKEMALARLYYKTSK-NH2 (SEQ ID NO: 2302)	---		0	---	0					
JBT0232	Ac-KKGYASFPLAVQLHVSRSKSKEMKK-NH2 (SEQ ID NO: 2303)	---		4	---	2					

도면18c

		13.25	38.12	6	---						
JBT0233	Ac-KKYASFP/AVQ/LHVSRSKEM/ARK-NH2 (SEQ ID NO: 2304)	---		6	---	6					
JBT0234	Ac-KKVQ/LHVSRSKEM/ARLYYKKK-NH2 (SEQ ID NO: 2305)	---		8	---	3					
JBT0235	Ac-KQ/LHVSRSKEM/ARLYYKTKK-NH2 (SEQ ID NO: 2306)	---		0	---	0					
JBT0236	Ac-K/LHVSRSKEM/ARLYYKTSKK-NH2 (SEQ ID NO: 2307)	---		0	---	0					
JBT0237	Ac-KSGYASFP/AVQ/LHVSRSKEKK-NH2 (SEQ ID NO: 2308)	---		0	---	2					
JBT0359	Ac-ASFP/AVQ/LHVSRSKEMA-NH2 (SEQ ID NO: 2309)	---		0	---	6					
JBT0360	Ac-SFP/AVQ/LHVSRSKEMA-NH2 (SEQ ID NO: 2310)	---		1	---	2					
JBT0361	Ac-FP/AVQ/LHVSRSKEMA-NH2 (SEQ ID NO: 2311)	---		0	---	9					
JBT0362	Ac-ASFP/AVQ/LHVSRSKEMA-NH2 (SEQ ID NO: 2312)	---		0	---	6					
JBT0363	Ac-ASFP/AVQ/LHVSRSKE-NH2 (SEQ ID NO: 2313)	---		0	---	9					
JBT0364	Ac-ASFP/AVQ/LHVSRSKEMA-NH2 (SEQ ID NO: 2314)	---		2	---	12					
JBT0365	Ac-ASFP/AVQ/LHVSRSKEMA-NH2 (SEQ ID NO: 2315)	---		0	---	9					
JBT0366	Ac-ASFP/AVQ/LHVSRSKEMA/AR-NH2 (SEQ ID NO: 2316)	---		0	---	11					
JBT0367	Ac-ASFP/AVQ/LHVSRSKEMA/ARL-NH2 (SEQ ID NO: 2317)	---		2	---	10					
JBT0368	Ac-ASFP/AVQ/LHVSRSKEMA/ARLY-NH2 (SEQ ID NO: 2130)	---		0	---	8					
JBT0369	Ac-ASFP/AVQ/LHVSRSKEMA/ARLYY-NH2	---		2	---	9					

도면18d

	(SEQ ID NO: 2017)								
JBT0370	Ac-YASPLAVQLHVSRRSEMA-NH2 (SEQ ID NO: 2318)	---	2	---	0	39			
JBT0371	Ac-GYASPLAVQLHVSRRSEMA-NH2 (SEQ ID NO: 2319)	---	8	---	1	60			

도면19a

JB10047 플래스		BiaCore			
서열		k_{on} (1/Ms)	k_{off} (1/s)	K_D (M)	
JB10047	Ac-SGVGRLOVAFQSKKNVVFVGYFERLRAKL.TS-NH2 (SEQ ID NO: 253)	3.98E+05	1.88E-02	4.72E-08	
JB10131	비오린-Tids-AIQSKKNVVFVGYFERLRAK-NH2 (SEQ ID NO: 964)	1.38E+05	5.94E-02	4.31E-07	
JB10132	비오린-Tids-FQSKKNVVFVGYFERLRAKL-NH2 (SEQ ID NO: 965)	3.55E+04	3.26E-02	9.17E-07	
JB10155	Ac-KKSGVGRLOVAFQSKKNVVFVGYFERLRAKL.TSKK-NH2 (SEQ ID NO: 8)	1.64E+05	7.25E-03	4.41E-08	
JB10158	Ac-KKSGVGRLOVAFQSKKNVVFVGYFERLRAKL.TSKK-NH2 (SEQ ID NO: 9)	4.49E+05	3.27E-02	7.29E-08	
JB10164	Ac-KKFQSKKNVVFVGYFERLRAKL.TSKK-NH2 (SEQ ID NO: 12)	2.26E+05	1.05E-02	4.65E-08	
JB10170	Ac-KKFQSKKNVVFVGYFERLRAKL.TSKK-NH2 (SEQ ID NO: 13)	4.09E+05	9.34E-03	2.28E-08	
JB10175	Ac-KKAFQSKKNVVFVGYFERLRAKL.TKK-NH2 (SEQ ID NO: 182)	2.70E+05	1.67E-02	6.18E-08	
JB10293	Ac-FQSKKNVVFVGYFERLRAKL-NH2 (SEQ ID NO: 256)	2.17E+05	2.12E-02	9.74E-08	
JB10294	Ac-YQSKKNVVFVGYFERLRAKL-NH2 (SEQ ID NO: 257)	5.69E+05	3.92E-02	6.90E-08	
JB10297	Ac-FQSKKNVVFVGYFERLRAKL-NH2 (SEQ ID NO: 183)	5.69E+05	3.92E-02	6.90E-08	
JB10302	Ac-FQSKKNVVFVGYFERLRAKL-NH2 (SEQ ID NO: 183)	1.02E+06	8.47E-02	8.27E-08	
JB10303	Ac-FQSKKNVVFVGYFERLRAKL-NH2 (SEQ ID NO: 184)	8.13E+05	2.75E-02	3.38E-08	
JB10305	Ac-FQSKKNVVFVGYFERLRAKL-NH2 (SEQ ID NO: 260)	7.45E+05	3.07E-02	4.11E-08	
JB10306	Ac-FQSKKNVVFVGYFERLRAKL-NH2 (SEQ ID NO: 185)	6.56E+05	3.61E-02	5.50E-08	
JB10307	Ac-FQSKKNVVFVGYFERLRAKL-NH2 (SEQ ID NO: 261)	5.95E+05	3.15E-02	5.30E-08	
JB10310	Ac-FQSKKNVVFVGYFERLRAKL-NH2 (SEQ ID NO: 262)	5.62E+04	1.05E-02	1.87E-07	
JB10337	Ac-FQSKNNVFDGYFERLRAKL-NH2 (SEQ ID NO: 16)	2.90E+05	6.50E-03	1.67E-08	
JB10343	Ac-FQSKNNVFDGYFERLRAKL-NH2 (SEQ ID NO: 19)	3.92E+05	1.46E-02	4.46E-08	
JB10375	Ac-FQSKGNVVFVGYFERLRAKL-NH2 (SEQ ID NO: 190)	4.00E+05	1.21E-02	3.04E-08	
JB10471	Ac-FQSKGNVFTGYFERLRAKL-NH2 (SEQ ID NO: 26)	7.03E+05	9.34E-03	1.33E-08	
JB10474	Ac-FQSKGNVFKGYFERLRAKL-NH2 (SEQ ID NO: 29)	9.95E+05	1.49E-02	1.50E-08	

도면19b

JB10477	Ac-F-QSKGNVFDGYFERLRAKL-NH2 (SEQ ID NO: 32)	3.72E+05	3.02E-03	8.10E-09
JB10500	Ac-F-QSK-NmetGly-NVFVFGYFERLRAKL-NH2 (SEQ ID NO: 46)	2.52E+05	2.06E-03	8.19E-09
JB10683	Ac-F-QSK-Nmg-AVFDGYFARLRAKL-NH2 (SEQ ID NO: 55)	1.00E+06	1.07E-03	1.07E-09
JB10765	Ac-F-QSKGNVFDGYFERL-Ecw-AKL-NH2 (SEQ ID NO: 68)	2.31E+05	1.85E-03	8.00E-09
JB10789	Ac-F-QSK-Nmg-NVFDGYFERL-Nic-AKL-NH2 (SEQ ID NO: 71)	1.92E+05	4.06E-04	2.12E-09
JB11122	Ac-F-QSK-Nmg-NVFDGYFARL-Nic-AKL-NH2 (SEQ ID NO: 113)	6.99E+04	9.61E-04	1.38E-08
JB11141	Ac-F-QSKAVFVKGYFARLRAKL-NH2 (SEQ ID NO: 120)	1.36E+05	3.16E-03	2.33E-08
JB11144	Ac-F-QSKDAVFVKGYFARLRAKL-NH2 (SEQ ID NO: 121)	3.05E+05	1.00E-02	3.28E-08

도면20

JB10120 플래스		BiaCore		
펠티드				
	서열	k_{on} (1/Ms)	k_{off} (1/s)	K_D (M)
JB10120	Ac-SGASRYKWF(CGMRDMKGTMSC)YWKFRYDTS-NH2 (SEQ ID NO: 1047)	1.17E+06	4.78E-02	4.08E-08
JB10320	Ac-SGASRYKWF(CGMRDMKGTMSC)YWK-NH2 (SEQ ID NO: 1103)	1.78E+05	4.25E-02	2.38E-07
JB10324	Ac-KWF(CGMRDMKGTMSC)YWKFRYDTS-NH2 (SEQ ID NO: 1155)	1.54E+04	6.36E-03	4.14E-07
JB10415	Ac-SRYKWF(CGMRDMKGTMSC)YWK-NH2 (SEQ ID NO: 1003)	1.75E+05	2.24E-02	1.28E-07
JB10444	Ac-SRYKWF(CGMRDMKGTMSC)YWK-NH2 (SEQ ID NO: 1004)	4.18E+05	1.21E-02	2.90E-08
JB10447	Ac-SRYKWF(CGMRAMKGTMSC)YWK-NH2 (SEQ ID NO: 1158)	6.86E+03	5.60E-03	8.16E-07
JB10455	Ac-SRYKWF(CGMRDMKGTMSC)YWK-NH2 (SEQ ID NO: 1049)	4.77E+05	3.03E-02	6.35E-08
JB10643	Ac-SRYKWF(CGMPDMKGTMSC)YWK-NH2 (SEQ ID NO: 1006)	1.78E+05	3.22E-02	1.81E-07

도면21

JB10122 클래스		BiaCore			
펩티드					
서열					
JB10122	AC-SGYASIFPLAVQLIHVSKRKSKEMALARLYYKTS-NH2 (SEQ ID NO: 2002)	k_{on} (1/Ms)	k_{off} (1/s)	K_D (M)	
JB10221	Ac-KKSGYASIFPLAVQLIHVSKRKSKEMALARLYYKTSK-NH2 (SEQ ID NO: 2003)	1.13E+04	2.23E-02	1.97E-06	
JB10224	Ac-KKSGYASIFPLAVQLIHVSKRKSKEMALARLYYK-NH2 (SEQ ID NO: 2298)	6.39E+04	1.95E-02	1.88E-07	3.05E-07

도면22a

JB10047 클래스		FXa 억제 분석			
센터드	서열	EC50 (μ M)	최대 억제 (%)	2.5 μ M에서 % 억제	0.63 μ M에서 % 억제
JB10047	Ac-SGVGRLOVAFQSKKNVFVFGYFEERLRAKLTIS-NH2 (SEQ ID NO: 253)	0.72		68	
JB10051	비오탄-Tlds-SGVGRLOVAFQSKKNVFVFGYFEERLRAKLTIS-NH2 (SEQ ID NO: 962)	0.53		66	
JB10055	Ac-SGVGRLOVAFQSKKNVFVFGYFEERLRAKLTIS-Tlds-라이신(비오탄)-NH2 (SEQ ID NO: 963)	0.53		72	
JB10131	비오탄-Tlds-AFQSKKNVFVFGYFEERLRAK-NH2 (SEQ ID NO: 964)	8.20		23	
JB10132	비오탄-Tlds-FQSKKNVFVFGYFEERLRAKL-NH2 (SEQ ID NO: 965)	1.15		36	
JB10133	비오탄-Tlds-QSKKNVFVFGYFEERLRAKLT-NH2 (SEQ ID NO: 966)			15	
JB10134	비오탄-Tlds-QSKKNVFVFGYFEERLRAK-NH2 (SEQ ID NO: 967)			5	
JB10155	Ac-KKSGVGRLOVAFQSKKNVFVFGYFEERLRAKLTSSK-NH2 (SEQ ID NO: 8)	0.97		54	
JB10156*	Ac-VVEKLITVQLSFLNRRISQYAGFKGAGKV-NH2 (SEQ ID NO: 742)			0	
JB10157*	Ac-RVETL YTSKGAGGLVKLVIERQAFQTNVSKFR-NH2 (SEQ ID NO: 743)			0	
JB10158	Ac-KKSGVGRLOVAFQSKKNVFVFGYFEERLRAKKK-NH2 (SEQ ID NO: 9)	4.26		35	
JB10159	Ac-KKSGVGRLOVAFQSKKNVFVFGYFEERLRKK-NH2 (SEQ ID NO: 744)			0	
JB10160	Ac-KKSGVGRLOVAFQSKKNVFVFGYFEERLRKK-NH2 (SEQ ID NO: 745)			0	
JB10161	Ac-KKSGVGRLOVAFQSKKNVFVFGYFEERLRKK-NH2 (SEQ ID NO: 746)			0	
JB10162	Ac-KKGRLOVAFQSKKNVFVFGYFEERLRAKLTSSK-NH2 (SEQ ID NO: 10)	0.74		54	
JB10163	Ac-KKQVAFQSKKNVFVFGYFEERLRAKLTSSK-NH2 (SEQ ID NO: 11)	1.54		48	
JB10164	Ac-KKTFQSKKNVFVFGYFEERLRAKLTSSK-NH2 (SEQ ID NO: 12)	1.74		43	
JB10165	Ac-KKKKNVFVFGYFEERLRAKLTSSK-NH2 (SEQ ID NO: 712)			0	
JB10166	비오탄-Tlds-KKTFQSKKNVFVFGYFEERLRAKLKK-NH2 (SEQ ID NO: 968)	2.60		50	
JB10167*	비오탄-Tlds-GKNAKTYLTFSLROYKVFVR-NH2 (SEQ ID NO: 969)			0	

도면22b

JB10168*	비오리날-1ids-YKISFNKEI.FKQARLRIVGV-NH2 (SEQ ID NO: 970)			0	
JB10169	Ac-KKAFQSKKNVFVFGYFERLRAKK-NH2 (SEQ ID NO: 254)			16	
JB10170	Ac-KKIFQSKKNVFVFGYFERLRAKK-NH2 (SEQ ID NO: 13)			61	
JB10171	Ac-KKQSKKNVFVFGYFERLRAKLTKK-NH2 (SEQ ID NO: 255)			25	
JB10172	Ac-KKQSKKNVFVFGYFERLRAKKK-NH2 (SEQ ID NO: 406)			7	
JB10173	비오리날-1ids-SGVRLQVAIQSKKNVFVFG-NH2 (SEQ ID NO: 971)			0	
JB10174	Ac-KKAFQSKKNVFVFGYFERLRAKLTKK-NH2 (SEQ ID NO: 14)	2.71		47	
JB10175	Ac-KKAFQSKKNVFVFGYFERLRAKLTKK-NH2 (SEQ ID NO: 182)	3.11	61	26	8
JB10293	Ac-FQSKKNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 256)	4.07		40	
JB10294	Ac-FQSKKNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 257)			2	
JB10295	Ac-FSSKKNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 713)	4.91		19	
JB10296	Ac-FQNKKNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 407)	0.63		59	
JB10297	Ac-FQSKNNNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 183)	1.83		42	
JB10298	Ac-FQSKQNNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 747)	15.31		9	
JB10299	Ac-FQSKKNVFVAFGYFERLRAKL-NH2 (SEQ ID NO: 408)			7	
JB10300	Ac-FQSKKNVFSFGYFERLRAKL-NH2 (SEQ ID NO: 409)			9	
JB10301	Ac-FQSKKNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 410)	2.10		47	
JB10302	Ac-FQSKKNVFVAGYFERLRAKL-NH2 (SEQ ID NO: 258)	0.88	69	50	26
JB10303	Ac-FQSKKNVFVDGYFERLRAKL-NH2 (SEQ ID NO: 184)	2.95		32	
JB10304	Ac-FQSKKNVFLGYFERLRAKL-NH2 (SEQ ID NO: 259)	2.28		45	
JB10305	Ac-FQSKKNVFVQGYFERLRAKL-NH2 (SEQ ID NO: 260)	3.56		37	
JB10306	Ac-FQSKKNVFSGYFERLRAKL-NH2 (SEQ ID NO: 185)	3.42		34	
JB10307	Ac-FQSKKNVFVGYFERLRAKL-NH2 (SEQ ID NO: 261)			9	
JB10308	Ac-FQSKKNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 411)	4.50		19	
JB10310	Ac-FQSKKNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 262)	3.86		5	
JB10311	Ac-FQSKKNVFVFGYFERLRAKN-NH2 (SEQ ID NO: 748)	6.20		2	
JB10335	Ac-FQSKKNVFVFGYFERLRAK-NH2 (SEQ ID NO: 749)	6.52		19	
JB10336	Ac-FQSKNNNVVAGYFERLRAKL-OH (SEQ ID NO: 263)				

도면22c

JB10337	Ac-FOSKNNVFVDGYFDRLRAKL-NH2 (SEQ ID NO: 16)	0.71		51	
JB10338	Ac-FOSKNNVFVQGYFDRLRAKL-NH2 (SEQ ID NO: 17)	1.12		40	
JB10339	Ac-FOSKNNVFVSGYFDRLRAKL-NH2 (SEQ ID NO: 18)	1.22		42	
JB10340	Ac-FOSKNNVFVYGYFDRLRAKL-NH2 (SEQ ID NO: 186)	1.87		37	
JB10341	Ac-FOSKNNVFVFGYFDRLRAKL-NH2 (SEQ ID NO: 187)	1.08		38	
JB10342	Ac-FOSKNNVFVDGYFEERLRAKL-NH2 (SEQ ID NO: 19)	0.38		58	
JB10343	Ac-FOSKNNVFVDGYFDRLRAKL-NH2 (SEQ ID NO: 188)	1.08		34	
JB10374	Ac-FOSKDNVFVFGYFEERLRAKL-NH2 (SEQ ID NO: 20)	0.75	66	52	27
JB10375	Ac-FOSKGNVFVFGYFEERLRAKL-NH2 (SEQ ID NO: 190)	0.41	73	65	40
JB10376	Ac-FOSKKNVFVFGYFEERLRAKL-NH2 (SEQ ID NO: 414)			11	
JB10377	Ac-FOSKKNQVFVFGYFEERLRAKL-NH2 (SEQ ID NO: 264)			20	
JB10378	Ac-FOSKKNVFVEGYFEERLRAKL-NH2 (SEQ ID NO: 21)	1.59	79	44	
JB10379	Ac-FOSKKNVFVEGYFEERLRAKL-NH2 (SEQ ID NO: 22)	3.13	81	36	
JB10380	Ac-FOSKKNVFVTGYFEERLRAKL-NH2 (SEQ ID NO: 191)	2.59	73	34	
JB10381	Ac-FOSPKNVFVFGYFEERLRAKL-NH2 (SEQ ID NO: 265)	3.28	81	34	
JB10385	Ac-FOSKKNVFVFGYFEERLRAKL-NH2 (SEQ ID NO: 672)			0	
JB10386	Ac-FOSKKNVFVFGYFEERLRAKL-NH2 (SEQ ID NO: 415)			6	
JB10388	Ac-FOSKKNVFVFGYFEERLRAKL-NH2 (SEQ ID NO: 192)	4.34	73	26	
JB10389	Ac-FOSKKNVFVFGYFEERLRAKL-NH2 (SEQ ID NO: 673)			0	
JB10390	Ac-FOSKKNVFQFGYFEERLRAKL-NH2 (SEQ ID NO: 674)			0	
JB10391	Ac-FOSKKNVFVGGYFEERLRAKL-NH2 (SEQ ID NO: 266)	7.02	74	18	
JB10392	Ac-FOSKKNVFVHG YFEERLRAKL-NH2 (SEQ ID NO: 23)	2.48	74	37	
JB10393	Ac-FOSKKNVFVKGYFEERLRAKL-NH2 (SEQ ID NO: 193)	3.02	64	28	
JB10394	Ac-FOSKKNVFVNGYFEERLRAKL-NH2 (SEQ ID NO: 24)	6.83	57	12	
JB10396	Ac-FOSKKNVFVPGYFEERLRAKL-NH2 (SEQ ID NO: 25)	2.80	72	32	
JB10397	Ac-FOSKKNVFVRGYFEERLRAKL-NH2 (SEQ ID NO: 195)	4.33	77	30	
JB10398	Ac-FOSKKNVFVFGYFEERLRAKL-NH2 (SEQ ID NO: 196)	5.09	72	23	
JB10399	Ac-FOSKKNVFVFGYFEERLRAKL-NH2 (SEQ ID NO: 750)			4	

22d면도

JB10400	Ac-FQSKKNVFEVGYEFLRAKL-NH2 (SEQ ID NO: 267)			1	
JB10401	Ac-FQSKKNVFEVGYEFLRAVL-NH2 (SEQ ID NO: 416)			0	
JB10402	비오린-Tlds-FQSKNNVFEVGYEFLRAKL-NH2 (SEQ ID NO: 973)	0.32	45	48	
JB10403	비오린-Tlds-FQSKKNVFDGYEFLRAKL-NH2 (SEQ ID NO: 972)	0.49	64	59	
JB10404	비오린-FQSKKNVFEVGYEFLRAKL-NH2 (SEQ ID NO: 974)	1.89	43	24	
JB10405	비오린-FQSKKNVFEVGYEFLRAKL-NH2 (SEQ ID NO: 975)	0.86	81	59	
JB10406	Ac-Tlds-FQSKKNVFEVGYEFLRAKL-NH2 (SEQ ID NO: 268)			28	
JB10471	Ac-FQSKGNVFEVGYEFLRAKL-NH2 (SEQ ID NO: 26)	0.41	77	64	45
JB10472	Ac-FQSKGNVFEVNGYEFLRAKL-NH2 (SEQ ID NO: 27)	0.37	60	49	34
JB10473	Ac-FQSKGNVFEVHGYEFLRAKL-NH2 (SEQ ID NO: 28)	0.25	47	45	31
JB10474	Ac-FQSKGNVFEVKGYEFLRAKL-NH2 (SEQ ID NO: 29)	0.29	75	68	50
JB10475	Ac-FQSKGNVFEVGYEFLRAKL-NH2 (SEQ ID NO: 30)	0.25	60	50	37
JB10476	Ac-FQSKGNVFDGYEFLRAKL-NH2 (SEQ ID NO: 31)	0.22	54	49	38
JB10477	Ac-FQSKGNVFDGYEFLRAKL-NH2 (SEQ ID NO: 32)	0.23	72	68	51
JB10478	Ac-FQSKDNVFEVGYEFLRAKL-NH2 (SEQ ID NO: 33)	0.76	51	39	21
JB10479	Ac-FQSKDNVFEVNGYEFLRAKL-NH2 (SEQ ID NO: 34)	1.10	58	40	21
JB10480	Ac-FQSKDNVFEVHGYEFLRAKL-NH2 (SEQ ID NO: 35)	1.11	65	42	24
JB10481	Ac-FQSKDNVFEVKGYEFLRAKL-NH2 (SEQ ID NO: 36)	0.77	53	41	23
JB10482	Ac-FQSKDNVFEVGYEFLRAKL-NH2 (SEQ ID NO: 37)	0.53	86	69	43
JB10483	Ac-FQSKDNVFDGYEFLRAKL-NH2 (SEQ ID NO: 38)	0.53	84	68	41
JB10484	Ac-FQSKDNVFDGYEFLRAKL-NH2 (SEQ ID NO: 976)	0.79	73	56	29
JB10485	Ac-FQSKNNVFEVGYEFLRAKL-NH2 (SEQ ID NO: 39)	0.75	86	63	38
JB10486	Ac-FQSKNNVFEVNGYEFLRAKL-NH2 (SEQ ID NO: 40)			44	26
JB10487	Ac-FQSKNNVFEVHGYEFLRAKL-NH2 (SEQ ID NO: 41)			58	36
JB10488	Ac-FQSKNNVFEVKGYEFLRAKL-NH2 (SEQ ID NO: 42)	0.56	78	64	40
JB10489	Ac-FQSKNNVFEVGYEFLRAKL-NH2 (SEQ ID NO: 43)	0.42	78	68	48
JB10490	Ac-FQSKQNVFEVGYEFLRAKL-NH2 (SEQ ID NO: 44)			53	25
JB10491	Ac-FQSKQNVFEVNGYEFLRAKL-NH2 (SEQ ID NO: 197)			53	29
JB10492	Ac-FQSKQNVFEVHGYEFLRAKL-NH2 (SEQ ID NO: 198)			45	24

22e면도

JB10493	Ac-FQSKQNVF-VKGYFERL.RAKL-NH2 (SEQ ID NO: 199)			45	21
JB10494	Ac-FQSKQNVF-VDGYFERL.RAKL-NH2 (SEQ ID NO: 45)			60	36
JB10495	Ac-FQSKQNVF-VFEGYFERL.RAKL-NH2 (SEQ ID NO: 200)			59	36
JB10497	Ac-NmePhe-QSKGNVVFVGYFERL.RAKL-NH2 (SEQ ID NO: 201)	0.47		40	24
JB10498	Ac-FQ-Q-NmeSer-KGNVVFVGYFERL.RAKL-NH2 (SEQ ID NO: 675)			3	1
JB10499	Ac-FQSK-NmeI.yS-GNVVFVFGYFERL.RAKL-NH2 (SEQ ID NO: 202)	0.83	75	56	30
JB10500	Ac-FQSK-NmeGly-NVFVFGYFERL.RAKL-NH2 (SEQ ID NO: 46)	0.13	71	70	60
JB10501	Ac-FQSKGN-NmeIV-FVFGYFERL.RAKL-NH2 (SEQ ID NO: 417)			16	6
JB10502	Ac-FQSKGNV-NmeIPhe-VFGYFERL.RAKL-NH2 (SEQ ID NO: 751)			0	0
JB10503	Ac-FQSKGNVF-NmeIV-FGYPEERL.RAKL-NH2 (SEQ ID NO: 676)			0	0
JB10504	Ac-FQSKGNVF-V-NmePhe-GYFERL.RAKL-NH2 (SEQ ID NO: 418)			7	2
JB10505	Ac-FQSKGNVF-VF-NmeGly-YFERL.RAKL-NH2 (SEQ ID NO: 269)			21	7
JB10506	Ac-FQSKGNVF-VFG-NmeI.yr-FERL.RAKL-NH2 (SEQ ID NO: 714)			0	0
JB10507	Ac-FQSKGNVF-VFQ-NmePhe-ERL.RAKL-NH2 (SEQ ID NO: 677)			0	0
JB10508	Ac-FQSKGNVF-VFGYF-NmeGlu-RL.RAKL-NH2 (SEQ ID NO: 678)			0	0
JB10509	Ac-FQSKGNVF-VFGYFE-Nmr-L.RAKL-NH2 (SEQ ID NO: 752)			0	0
JB10510	Ac-FQSKGNVF-VFGYFER-NmeI.eu.RAKL-NH2 (SEQ ID NO: 753)			0	0
JB10511	Ac-FQSKGNVF-VFGYFERL-Nmr-AKL-NH2 (SEQ ID NO: 754)			0	0
JB10512	Ac-FQSKGNVF-VFGYFERL.R-NmeAla-KL-NH2 (SEQ ID NO: 679)			0	0
JB10513	Ac-FQSKGNVF-VFGYFERL.RA-NmeI.yS-L-NH2 (SEQ ID NO: 755)			0	0
JB10514	Ac-FQSKGNVF-VFGYFERL.RAK-NmeI.eu-NH2 (SEQ ID NO: 419)			1	0
JB10515	Ac-bHomPhe-QSKGNVVFVGYFERL.RAKL-NH2 (SEQ ID NO: 420)			22	11
JB10516	Ac-F-bHomocGln-SKGNVVFVFGYFERL.RAKL-NH2 (SEQ ID NO: 680)			7	4
JB10517	Ac-FQ-bHomocGln-KGNVVFVFGYFERL.RAKL-NH2 (SEQ ID NO: 421)			7	2
JB10518	Ac-FQSK-bAla-NVFVFGYFERL.RAKL-NH2 (SEQ ID NO: 422)			9	2
JB10519	Ac-FQSK-bAla-NVFVFGYFERL.RAKL-NH2 (SEQ ID NO: 270)			20	15
JB10520	Ac-FQSKG-bGln-VFVFGYFERL.RAKL-NH2 (SEQ ID NO: 271)			24	9
JB10521	Ac-FQSKGN-bI.eu-FVFGYFERL.RAKL-NH2 (SEQ ID NO: 756)			3	3
JB10522	Ac-FQSKGNV-bHomocPhe-VFGYFERL.RAKL-NH2 (SEQ ID NO: 681)			5	3

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JB10523	Ac-FQSKGNVF-bI.eu-FGYFERL.RAKL.-NH2 (SEQ ID NO: 757)			1	2
JB10524	Ac-FQSKGNVF-V-bHomophc-GYFERL.RAKL.-NH2 (SEQ ID NO: 682)			0	4
JB10525	Ac-FQSKGNVF-VF-bAla-YFERL.RAKL.-NH2 (SEQ ID NO: 758)			0	3
JB10526	Ac-FQSKGNVF-VFG-bHomofYc-FERL.RAKL.-NH2 (SEQ ID NO: 759)			0	0
JB10527	Ac-FQSKGNVF-VFGY-bHomophc-ERL.RAKL.-NH2 (SEQ ID NO: 683)			9	2
JB10528	Ac-FQSKGNVF-VGYT-bE-RI.RAKL.-NH2 (SEQ ID NO: 272)			25	20
JB10529	Ac-FQSKGNVF-VGYTE-bHomofg-1.RAKL.-NH2 (SEQ ID NO: 760)			0	1
JB10530	Ac-FQSKGNVF-VGYTER-BI.RAKL.-NH2 (SEQ ID NO: 684)			3	0
JB10532	Ac-FQSKGNVF-VGYTERL.R-bAla-KI.-NH2 (SEQ ID NO: 423)			14	7
JB10533	Ac-FQSKGNVF-VGYTERL.RA-bHomok-1.-NH2 (SEQ ID NO: 424)			17	4
JB10534	Ac-FQSKGNVF-VGYTERL.RAK-BI.-NH2 (SEQ ID NO: 204)	0.47	48	39	28
JB10535	Ac-FQSKGNVF-VGYTE-Cit-1.RAKL.-NH2 (SEQ ID NO: 685)			13	5
JB10536	Ac-FQSKGNVF-VGYTERL-Cit-AKI.-NH2 (SEQ ID NO: 273)			52	32
JB10537	Ac-FQSKGNVF-VGYTE-Nic-1.RAKL.-NH2 (SEQ ID NO: 761)			0	0
JB10538	Ac-FQSKGNVF-VGYTERL-Nic-AKI.-NH2 (SEQ ID NO: 425)			16	20
JB10564	Ac-FQSKKNVF-VGYERL.RAKL.-NH2 (SEQ ID NO: 205)	4.12	54	19	6
JB10578	Ac-FQSKKNVF-VGYTERL.RAKL.-NH2 (SEQ ID NO: 441)			1	0
JB10613	Ac-FQSKGNVF-VGYTERL.RAKL.-OH (SEQ ID NO: 283)			21	8
JB10614	NH2-FQSKGNVF-VGYTERL.RAKL.-OH (SEQ ID NO: 720)			3	0
JB10615	NH2-FQSKGNVF-VGYTERL.RAKL.-NH2 (SEQ ID NO: 284)			14	5
JB10616	NH2-GSFQSKKNVF-VDGTYERL.RAKL.-OH (SEQ ID NO: 285)	0.85	30	25	
JB10636	Ac-FQSK-Nmg-NVFDGYEARL.RAKL.-NH2 (SEQ ID NO: 47)	0.10	90	86	76
JB10651	Ac-FQSKGNVHVKGTYERL.RAKL.-NH2 (SEQ ID NO: 48)	0.59	50	40	26
JB10652	Ac-FQSKGNVHVVDGYTERL.RAKL.-NH2 (SEQ ID NO: 49)	0.34	52	48	34
JB10653	Ac-FQSPGNVHVKGTYERL.RAKL.-NH2 (SEQ ID NO: 50)	0.44	57	47	33
JB10654	Ac-FQSPGNVHVVDGYTERL.RAKL.-NH2 (SEQ ID NO: 51)	0.37	60	50	36
JB10655	Ac-FQSKGNL.FVFGYTERL.RAKL.-NH2 (SEQ ID NO: 52)	1.32	65	41	22
JB10656	Ac-FQSKGNL.FVFGYTERL.RAKL.-NH2 (SEQ ID NO: 286)			21	10
JB10657	Ac-FQSKGNVH.FGYTERL.RAKL.-NH2 (SEQ ID NO: 287)			24	10

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JB10658	Ac-FQSKGNVFLFGYFERLRAKL-NH2 (SEQ ID NO: 694)				6	3
JB10663	Ac-FQSKaNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 53)	0.29	86	81		60
JB10668	Ac-FQSKaNVFVTGYFARLRAKL-NH2 (SEQ ID NO: 54)	0.52	84	70		43
JB10681	Ac-FQSK-Nmg-AVFVFGYFARLRAKL-NH2 (SEQ ID NO: 206)			52		52
JB10683	Ac-FQSK-Nmg-AVFVDGYFARLRAKL-NH2 (SEQ ID NO: 55)	0.13	91	86		74
JB10696	Ac-FQSKKAVFVFGYFERLRAKL-NH2 (SEQ ID NO: 288)	0.71	56	48		26
JB10697	Ac-FQSKGNVFDGYFERL-Dap-AKL-NH2 (SEQ ID NO: 56)	0.50	89	73		52
JB10699	Ac-FQSKGNVFDGYFERL-Om-AKL-NH2 (SEQ ID NO: 57)	0.41	89	76		57
JB10700	Ac-FQSKGNVFDGYFERL-Nva-AKL-NH2 (SEQ ID NO: 58)	0.19	83	77		64
JB10704	Ac-FQSKKNVVFVGYFARLRAKL-NH2 (SEQ ID NO: 289)			19		8
JB10708	Ac-FQSKaNVFVAGYFERLRAKL-NH2 (SEQ ID NO: 59)	0.25	89	77		59
JB10714	Ac-FQSKaVFDGYFARLRAKL-NH2 (SEQ ID NO: 60)	0.18	81	75		59
JB10717	Ac-FQSK-Nmg-NVFDGYFERLRAKL-NH2 (SEQ ID NO: 61)	0.06	91	87		84
JB10720	Ac-FQSK-Nmg-NVFTGYFARLRAKL-NH2 (SEQ ID NO: 62)	0.22	85	77		62
JB10732	Ac-FQSKGNVFDGYFERL-Htg-AKL-NH2 (SEQ ID NO: 63)	0.18	83	75		62
JB10733	Ac-FQSKGNVFDGYFERL-Har-AKL-NH2 (SEQ ID NO: 64)	0.18	81	75		62
JB10739	Ac-FQSKGNVFDGYFERL-Atb-AKL-NH2 (SEQ ID NO: 65)	0.28	82	74		51
JB10740	Ac-FQSKGNVFDGYFERL-Atb-AKL-NH2 (SEQ ID NO: 66)	0.09	87	84		78
JB10754	Ac-FQSK-Nmg-AVFVTCYFARLRAKL-NH2 (SEQ ID NO: 67)	0.24	80	74		57
JB10757	Ac-FQSKKNVFTGYFERLRAKL-NH2 (SEQ ID NO: 699)			3		1
JB10759	Ac-FQSKKNVFTGYFERLRAKL-NH2 (SEQ ID NO: 207)	0.65	60	53		29
JB10765	Ac-FQSKGNVFDGYFERL-Ecw-AKL-NH2 (SEQ ID NO: 68)	0.16	95	87		73
JB10775	Ac-FQSKGNVFTGYFDRLRAKL-NH2 (SEQ ID NO: 69)	0.77	77	57		34
JB10778	Ac-FQSKGNVFKGYFDRLRAKL-NH2 (SEQ ID NO: 209)	1.48	77	46		23
JB10779	Ac-FQSKGNVVEGYFDRLRAKL-NH2 (SEQ ID NO: 210)	0.77	82	59		37
JB10780	Ac-FQSK-Nmg-NVFTGYFARLRAKL-NH2 (SEQ ID NO: 70)			45		54
JB10781	Ac-FQSKGNVFDGYTKRLRAKL-NH2 (SEQ ID NO: 211)	1.25	81	48		25
JB10789	Ac-FQSK-Nmg-NVFDGYFERL-Nic-AKL-NH2 (SEQ ID NO: 71)	0.06	86	84		77
JB10806	Ac-FQSK-Nmg-NVFAAGYFARLRAKL-NH2 (SEQ ID NO: 74)	0.13	79	75		65

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JB10837	Ac-FQSK-Nmg-NVFTGYFERL-NIc-AKL-NH2 (SEQ ID NO: 213)	0.20	76	70	54
JB10844	Ac-FQSKaNVFVDGYFERL.RAKL-NH2 (SEQ ID NO: 300)	0.32	84	72	51
JB10850	Ac-FQSKaAVFVAGYFARL.RAKL-NH2 (SEQ ID NO: 302)	0.19	75	70	55
JB10854	Ac-FQSKaAVFVAGYFARL-NIc-AKL-NH2 (SEQ ID NO: 490)	0.29	49	47	36
JB10870	Ac-FQSKaAVFVTGYFARL.RAKL-NH2 (SEQ ID NO: 214)	0.31	84	80	57
JB10886	Ac-FQSKaNVFVDGYFARL.RAKL-NH2 (SEQ ID NO: 215)	0.36	83	71	48
JB10894	Ac-FQSKGNVFVDGYFERL.HAKL-NH2 (SEQ ID NO: 76)	0.39	95	80	56
JB10919	Ac-FQSKaNVFTGYFERL.RAKL-NH2 (SEQ ID NO: 79)	0.36	86	74	51
JB10931	Ac-FQSKGNVFVDGYFERL-NIc-AKL-NH2 (SEQ ID NO: 879)	0.42	91	75	52
JB10946	Ac-FQSKGNVFVDGYFERL-NIc-AKL-NH2 (SEQ ID NO: 85)	0.27	85	74	56
JB10950	Ac-FQSKaNVFTGYFARL.RAKL-NH2 (SEQ ID NO: 217)			47	31
JB10973	Ac-FQSKGNVFVDGYFERL-NIc-AKL-NH2 (SEQ ID NO: 92)	0.16	70	65	58
JB11006	Ac-FQSKGNVFVDGYFERL-NIc-AKL-NH2 (SEQ ID NO: 96)	0.17	77	71	61
JB11035	Ac-FQSK-Nmg-AVFVAGYFARL-NIc-AKL-NH2 (SEQ ID NO: 218)				53
JB11037	Ac-FQSKGNVFVDGYFERL-NIc-AKL-NH2 (SEQ ID NO: 104)	0.22	74	68	55
JB11043	Ac-FQSKaNVFVDGYFERL-NIc-AKL-NH2 (SEQ ID NO: 106)	0.30	80	70	51
JB11082	Ac-FQSKaAVFVTGYFARL.RAKL-NH2 (SEQ ID NO: 565)	0.20	47	45	38
JB11084	Ac-FQSK-Nmg-AVFVAGYFARL.RAKL-NH2 (SEQ ID NO: 109)	0.21	66	62	51
JB11106	Ac-FQSKGNVFVDGYFWL.RAKL-NH2 (SEQ ID NO: 220)	0.28	94	79	65
JB11122	Ac-FQSK-Nmg-NVFDGYFARL-NIc-AKL-NH2 (SEQ ID NO: 113)			67	65
JB11131	비오란-1tds-FQSKGNVFVDGYFERL.RAKL-NH2 (SEQ ID NO: 977)	0.20	94	86	69
JB11133	Ac-FQSKaNVFVDGYFARL.RAKL-NH2 (SEQ ID NO: 115)	0.22	80	72	57
JB11134	Ac-FQSKGNVFVDGYFARL.RAKL-NH2 (SEQ ID NO: 116)	0.24	72	66	54
JB11135	Ac-FQSKDAVFVDGYFARL.RAKL-NH2 (SEQ ID NO: 117)	0.39	68	61	38
JB11136	Ac-FQSKaNVFVDGYFARL.RAKL-NH2 (SEQ ID NO: 117)	0.17	77	72	58
JB11137	Ac-FQSKaNVFVAGYFARL.RAKL-NH2 (SEQ ID NO: 118)	0.32	71	58	40
JB11138	Ac-FQSKGNVFVAGYFARL.RAKL-NH2 (SEQ ID NO: 222)	0.25	50	47	38
JB11139	Ac-FQSKDAVFVAGYFARL.RAKL-NH2 (SEQ ID NO: 223)			48	26
JB11140	Ac-FQSKDAVFVAGYFARL.RAKL-NH2 (SEQ ID NO: 119)	0.21	62	58	47

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JB11141	Ac-FQSKaNVFVKGYFARLRAKL-NH2 (SEQ ID NO: 120)	0.37	62	54	38
JB11142	Ac-FQSKGAVFVKGYFARLRAKL-NH2 (SEQ ID NO: 224)	0.39	49	47	32
JB11143	Ac-FQSKDAVFVKGYFARLRAKL-NH2 (SEQ ID NO: 225)	0.84	54	40	19
JB11144	Ac-FQSKdAVFVKGYFARLRAKL-NH2 (SEQ ID NO: 121)	0.32	63	57	38
JB11145	Ac-FQSKaVFTGYFARLRAKL-NH2 (SEQ ID NO: 122)	0.39	66	60	38
JB11146	Ac-FQSKGAVFVTGYFARLRAKL-NH2 (SEQ ID NO: 226)		41	28	
JB11147	Ac-FQSKDAVFVTGYFARLRAKL-NH2 (SEQ ID NO: 227)		48	24	
JB11148	Ac-FQSKdAVFVTGYFARLRAKL-NH2 (SEQ ID NO: 123)	0.33	68	61	44
JB11149	Ac-FQSKGNVFVFGYFARLRAKL-NH2 (SEQ ID NO: 936)		0	0	0
JB11151	Ac-FQSKKNVFVFGYFARLRAKL-NH2 (SEQ ID NO: 937)		0	0	0
JB11152	Ac-FQSKKNVFVFGYFARLRAKL-NH2 (SEQ ID NO: 735)		0	0	0
JB11153	Ac-FQSKKNVFVFGYFARLRAKL-NH2 (SEQ ID NO: 705)	5.25	51	12	0
JB11155	Ac-FQSK-Nmg-NVFVTCYFARLRAKL-NH2 (SEQ ID NO: 125)	0.21	87	77	61
JB11156	Ac-FQSKaNVFVDGYFARL-Nle-AKL-NH2 (SEQ ID NO: 126)		67	44	
JB11157	Ac-FQSKaNVFVAGYFARLRAKL-NH2 (SEQ ID NO: 127)	0.27	77	69	51
JB11158	Ac-FQSKGNVFVFGYFARLRAKL-N-페틸 (SEQ ID NO: 228)		73	45	
JB11159	Ac-FQSKGNVFVFGYFARLRAKL-N-에틸 (SEQ ID NO: 128)		71	41	
JB11160	Ac-FQSKGNVFVFGYFARLRAKL-N-프로필 (SEQ ID NO: 978)		76	54	
JB11161	Ac-FQSK-Aib-NVFVFGYFARLRAKL-NH2 (SEQ ID NO: 338)		71	46	
JB11162	Ac-FQSKpNVFVFGYFARLRAKL-NH2 (SEQ ID NO: 129)	0.03	94	71	90
JB11396	Ac-FQSK-Nmg-NVFVAGYFARLRAKL-NH2 (SEQ ID NO: 161)	0.05	95	93	87
JB11584	Ac-FQSK-Nmg-NVFVDGYFARL-Aib-AKL-NH2 (SEQ ID NO: 164)	0.02	93	93	92
JB11585	Ac-FQSK-Nmg-NVFVTCYFARL-Aib-AKL-NH2 (SEQ ID NO: 165)	0.04	90	90	89
JB11587	Ac-FQSKGNVFVDGYFARL-Aib-AKL-C-NH2 (SEQ ID NO: 167)	0.05	90	88	83
JB11590	Ac-FQSKGNVFVCGYFARL-Aib-AKL-C-NH2 (SEQ ID NO: 401)			53	21
JB11591	Ac-FQSKGNVFVDGYFCRL-Aib-AKL-C-NH2 (SEQ ID NO: 168)	0.67	81	72	41
JB11592	Ac-ICFQSKGNVFVDGYFARLCAKL-NH2 (SEQ ID NO: 402)	1.55	86	54	24
JB11593	Ac-FQSKICNVFVDGYFARLCAKL-NH2 (SEQ ID NO: 670)			43	18
JB11594	Ac-FQSKGNVFVCGYFARLCAKL-NH2 (SEQ ID NO: 671)			9	5

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JB11595	Ac-[CFQSKGNVFVC]GYTERL-Aib-AKL-NH2 (SEQ ID NO: 403)			32	14
JB11596	Ac-[CFQSKGC]VEVEGYTERL-Aib-AKL-NH2 (SEQ ID NO: 404)			52	24
JB11597	Ac-DGYTERLRAKL-NH2 (SEQ ID NO: 960)			0	0
JB11598	Ac-FQSKKNV-NH2 (SEQ ID NO: 961)			0	0
JB11843	Ac-FQSKGNVFVDGYTERLHAKL-NH2 (SEQ ID NO: 169)	0.81	94	70	42
JB11844	Ac-FQSKNNVFVDGYFKRLRAKL-NH2 (SEQ ID NO: 170)	0.73	91	70	42
JB11845	Ac-FQSKYKHYFVDGYTERLRAKL-NH2 (SEQ ID NO: 249)	1.24	94	61	33
JB11846	Ac-FQSKGIVFVDGYFKRLRAKL-NH2 (SEQ ID NO: 250)	0.87	91	65	38
JB11847	Ac-YOTKGNVFVDGYTERLRAKL-NH2 (SEQ ID NO: 171)	0.12	87	82	73
JB11852	PEG(LKD)-FQSKGNVFVDGYTERL-Aib-AKL-NH2 (SEQ ID NO: 174)	0.11	93	88	76
JB11853	PEG(40KD)-FQSKGNVFVDGYTERL-Aib-AKL-NH2 (SEQ ID NO: 175)	0.17	99	91	75
JB11854	Ac-FQSKGNVFVDGYTERL-Aib-AKL C(PEG(LKD)-NH2 (SEQ ID NO: 176)	0.07	93	90	83
JB11855	Ac-FQSKGNVFVDGYTERL-Aib-AKL C(PEG(40KD)-NH2 (SEQ ID NO: 252)	0.10	97	91	79

도면23a

JB10120 클래스		FXa 억제 분석			
센터드	서열	EC50 (μ M)	최대 억제 (%)	2.5 μ M에서 % 억제	0.63 μ M에서 % 억제
JB10120	Ac-SGASRYKWF(CGMRDMKGTMSC)VWVKFRYDTS-NH2 (SEQ ID NO: 1047)	1.21	75	47	26
JB10124	비오탄-Tide-SGASRYKWF(CGMRDMKGTMSC)VWVKFRYDTS-NH2 (SEQ ID NO: 1290)	1.59		41	
JB10247	Ac-SGASRYKWF(CGMRDMKGTMSC)VWVKFRYDTS-NH2 (SEQ ID NO: 1213)	0.79		42	
JB10248	Ac-KKSGASRYKWF(CGMRDMKGTMSC)VWVKFRYDTSKR-NH2 (SEQ ID NO: 1001)	0.82		53	
JB10249	Ac-KKSGASRYKWF(CGMRDMKGTMSKK-NH2 (SEQ ID NO: 1214)			0	
JB10250	Ac-KKSRYKWF(CGMRDMKGTMSC)VWKK-NH2 (SEQ ID NO: 1201)			11	
JB10251	Ac-KKKWF(CGMRDMKGTMSC)VWVKFRK-NH2 (SEQ ID NO: 1202)			17	
JB10252	Ac-KK(CGMRDMKGTMSC)VWVKFRYDK-NH2 (SEQ ID NO: 1215)			13	
JB10253	Ac-KKMRDMKGTMSCVWVKFRYDTSKR-NH2 (SEQ ID NO: 1216)			0	
JB10319	Ac-SGASRYKWF(CGMRDMKGTMSC)VWVKFRY-NH2 (SEQ ID NO: 1002)	0.30		72	
JB10320	Ac-SGASRYKWF(CGMRDMKGTMSC)VWVK-NH2 (SEQ ID NO: 1103)			9	
JB10321	Ac-SGASRYKWF(CGMRDMKGTMSC)V-NH2 (SEQ ID NO: 1217)			0	
JB10322	Ac-SGASRYKWF(CGMRDMKGTM-NH2 (SEQ ID NO: 1218)			0	
JB10322	Ac-SGASRYKWF(CGMRDMKGTM-NH2 (SEQ ID NO: 1218)			0	
JB10323	Ac-SRYKWF(CGMRDMKGTMSC)VWVKFRYDTS-NH2 (SEQ ID NO: 1076)	0.72		42	
JB10324	Ac-KWF(CGMRDMKGTMSC)VWVKFRYDTS-NH2 (SEQ ID NO: 1155)			0	
JB10325	Ac-ICGMRDMKGTMSC)VWVKFRYDTS-NH2 (SEQ ID NO: 1219)			0	
JB10326	Ac-RDMKGTMSCVWVKFRYDTS-NH2 (SEQ ID NO: 1220)			0	
JB10327	Ac-SGASRYKWF(CGMRDMKGTMS-NH2 (SEQ ID NO: 1222)			0	
JB10328	Ac-SRYKWF(CGMRDMKGTMSC)VW-NH2 (SEQ ID NO: 1223)			0	

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JB10329	Ac-KWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1156)			2	
JB10330	Ac-[CGMRDMKGTMSC]VWVKRYD-NH2 (SEQ ID NO: 1224)			0	
JB10331	Ac-MRDMKGTMSCVWVKERYD-NH2 (SEQ ID NO: 1225)			0	
JB10332	Ac-SRYKWF[CGMRDMKGTMSCVW-NH2 (SEQ ID NO: 1206)			1	
JB10333	Ac-KWF[CGMRDMKGTMSCVWVKF-NH2 (SEQ ID NO: 1207)			4	
JB10334	Ac-CGMRDMKGTMSCVWVKRYD-NH2 (SEQ ID NO: 1227)			0	
JB10409	Ac-SGASRYKWFSGMRDMKGTMSCVWVKERYD-NH2 (SEQ ID NO: 1204)			0	
JB10410	Ac-SGASRYKWFSG-Nle-RD-Nle-KGT-Nle-SSVWVKERYD-NH2 (SEQ ID NO: 1208)			0	
JB10411	Ac-SGASRYKWF[CG-Nle-RD-Nle-KGT-Nle-SC]VWVKERYD-NH2 (SEQ ID NO: 1104)			11	
JB10412	Ac-KWF[CG-Nle-RD-Nle-KGT-Nle-SC]VWVKF-NH2 (SEQ ID NO: 1209)			7	
JB10413	Ac-KWFSGMRDMKGTMSCVWVKF-NH2 (SEQ ID NO: 1228)			0	
JB10414	Ac-KWFSG-Nle-RD-Nle-KGT-Nle-SSVWVKF-NH2 (SEQ ID NO: 1205)			4	
JB10415	Ac-SRYKWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1003)	0.52	73	59	39
JB10416	Ac-SRYKWF[CG-Nle-RD-Nle-KGT-Nle-SC]VWVKF-NH2 (SEQ ID NO: 1077)			52	
JB10417	Ac-SRYKWFSGMRDMKGTMSCVWVKF-NH2 (SEQ ID NO: 1229)			0	
JB10418	Ac-SRYKWFSG-Nle-RD-Nle-KGT-Nle-SSVWVKF-NH2 (SEQ ID NO: 1210)			4	
JB10419	Ac-SGGRKHKHFLRSNGKPSRALSSMHWRWSTS-NH2 (SEQ ID NO: 1293)			6	
JB10435	Ac-RKRDVSGKWCWSGFSKWERC[ADMMITYSVT-NH2 (SEQ ID NO: 1211)			0	
JB10436	Ac-RWSGKSTYS[CDAMVBRMGKC]FSGWTDVYK-NH2 (SEQ ID NO: 1212)			0	
JB10437	Ac-ARYKWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1048)			71	
JB10438	Ac-SAYKWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1078)			54	
JB10439	Ac-SRAKWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1105)			35	
JB10440	Ac-SRYAWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1106)			37	
JB10441	Ac-SRYKAF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1230)			0	
JB10442	Ac-SRYKWA[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1231)			8	
JB10443	Ac-SRYKWFAGMRDMKGTMSCVWVKF-NH2 (SEQ ID NO: 1157)			0	
JB10444	Ac-SRYKWF[CGMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1004)	0.24	90	80	62

도면23c

JB-T0445	Ac-SRYKWE CGARDMKGTMSC VWVKF-NH2 (SEQ ID NO: 1107)			18	
JB-T0446	Ac-SRYKWE CGMADMKGTMSC VWVKF-NH2 (SEQ ID NO: 1079)			50	
JB-T0447	Ac-SRYKWE CGMRAMKGTMSC VWVKF-NH2 (SEQ ID NO: 1158)			11	
JB-T0448	Ac-SRYKWE CGMRDAKGTMSC VWVKF-NH2 (SEQ ID NO: 1108)			44	
JB-T0449	Ac-SRYKWE CGMRDMAGTMSC VWVKF-NH2 (SEQ ID NO: 1080)	1.26	82	46	30
JB-T0450	Ac-SRYKWE CGMRDMKATMSC VWVKF-NH2 (SEQ ID NO: 1159)			33	
JB-T0451	Ac-SRYKWE CGMRDMGAMSC VWVKF-NH2 (SEQ ID NO: 1081)			54	
JB-T0452	Ac-SRYKWE CGMRDMKGTASC VWVKF-NH2 (SEQ ID NO: 1109)			39	
JB-T0453	Ac-SRYKWE CGMRDMKGTMAC VWVKF-NH2 (SEQ ID NO: 1110)	1.18	62	38	23
JB-T0454	Ac-SRYKWE CGMRDMKGTMSAVWVKF-NH2 (SEQ ID NO: 1160)			0	
JB-T0455	Ac-SRYKWE CGMRDMKGTMSC AVVKF-NH2 (SEQ ID NO: 1049)	1.02	65	40	26
JB-T0456	Ac-SRYKWE CGMRDMKGTMSC VAVKF-NH2 (SEQ ID NO: 1232)			3	
JB-T0457	Ac-SRYKWE CGMRDMKGTMSC VWAKF-NH2 (SEQ ID NO: 1161)			16	
JB-T0458	Ac-SRYKWE CGMRDMKGTMSC VWVAF-NH2 (SEQ ID NO: 1082)	1.34	66	39	24
JB-T0459	Ac-SRYKWE CGMRDMKGTMSC VWVKA-NH2 (SEQ ID NO: 1083)			47	
JB-T0460	Ac-RYKWE CGMRDMKGTMSC VWVKF-NH2 (SEQ ID NO: 1050)			57	
JB-T0461	Ac-YKWE CGMRDMKGTMSC VWVKF-NH2 (SEQ ID NO: 1111)			32	
JB-T0462	Ac-SRYKWE CGMDMKGTMSC VWVKF-NH2 (SEQ ID NO: 1233)			0	
JB-T0463	Ac-SRYKWE CGMRD CMKGTMSC VWVKF-NH2 (SEQ ID NO: 1234)			0	
JB-T0464	Ac-SRYKWE CGMRDMK CGTMS VWVKF-NH2 (SEQ ID NO: 1235)			0	
JB-T0465	Ac-SRYKWE CGMRDMK CGTMS VWVKF-NH2 (SEQ ID NO: 1236)			0	
JB-T0466	Ac-SRYKWE CGMRDMK CGTMS VWVKF-NH2 (SEQ ID NO: 1237)			0	
JB-T0467	Ac-SRYKWE CGMRD CMKGTMS VWVKF-NH2 (SEQ ID NO: 1238)			0	
JB-T0468	Ac-SRYKWE CGMRDMK CGTMS VWVKF-NH2 (SEQ ID NO: 1239)			2	
JB-T0469	Ac-SRYKWE CGMRD CMKGTMS VWVKF-NH2 (SEQ ID NO: 1162)			5	
JB-T0470	Ac-SRYKWE CGMRD CMKGTMS VWVKF-NH2 (SEQ ID NO: 1162)			0	
JB-T0617	Ac-SRYKWE CGMRDMKGTMSC VWVKF-NH2 (SEQ ID NO: 1112)	1.91	35	18	8
JB-T0618	Ac-SRYKWE CGMRDMKGTMS-homoc VWVKF-NH2 (SEQ ID NO: 1163)	3.44	18	5	1
JB-T0619	Ac-SRYKWE homoc-GMRDMKGTMS-homoc VWVKF-NH2 (SEQ ID NO: 1241)			0	0

JB10620	Ac-SRYKWHIDap-GMRDMKGTMS-ID VWVKF-NH2 (SEQ ID NO: 1242)				0	0
JB10623	Ac-SRYKWH KGMRDMKGTMSD VWVKF-NH2 (SEQ ID NO: 1243)				3	2
JB10625	Ac-SRYKWH GMRDMKGTMSG VWVKF-NH2 (SEQ ID NO: 1244)				0	0
JB10626	Ac-SRYKWH GMRDCKGTMSG VWVKF-NH2 (SEQ ID NO: 1164)				3	0
JB10627	Ac-SRYKWH GMRDMGTMSG VWVKF-NH2 (SEQ ID NO: 1165)				2	0
JB10628	Ac-SRYKWH GMRDMKGMSG VWVKF-NH2 (SEQ ID NO: 1166)				0	0
JB10629	Ac-SRYKWH GMRDMKGTMSC VWVKF-NH2 (SEQ ID NO: 1167)				0	0
JB10631	Ac-SRYKWH GMRDMKGTMSC VWVKF-NH2 (SEQ ID NO: 1113)	1.89	62		33	15
JB10632	Ac-SRYKWH GMRDMKGTMSC VWVKF-NH2 (SEQ ID NO: 1245)				0	0
JB10633	Ac-SRYKWH GMRDMKGTMSC VWVKF-NH2 (SEQ ID NO: 1168)				0	0
JB10634	Ac-SRYKWH GMRDMKGTMSC VWVKF-NH2 (SEQ ID NO: 1051)	0.69	63		47	26
JB10635	Ac-SRYKWH GMRDMKGTMSC VWVKF-NH2 (SEQ ID NO: 1114)	5.14	48		13	2
JB10637	Ac-SRYKWH GMRDMKGTMSC VWVKF-NH2 (SEQ ID NO: 1169)				0	0
JB10638	Ac-SRYKWH GMRDMKGTMSC VWVKF-NH2 (SEQ ID NO: 1246)				0	0
JB10639	Ac-SRYKWH GMRDMKGTMSC VWVKF-NH2 (SEQ ID NO: 1170)				2	0
JB10640	Ac-SRYKWH GMRDMKGTMSC VWVKF-NH2 (SEQ ID NO: 1171)				3	0
JB10641	Ac-SRYKWH GMRDMKGTMSC VWVKF-NH2 (SEQ ID NO: 1247)				4	2
JB10642	Ac-SRYKWH GPRDMKGTMSC VWVKF-NH2 (SEQ ID NO: 1248)				2	1
JB10643	Ac-SRYKWH GMPDMKGTMSC VWVKF-NH2 (SEQ ID NO: 1006)				45	26
JB10644	Ac-SRYKWH GMRPMKGTMSC VWVKF-NH2 (SEQ ID NO: 1172)	4.55	35		12	3
JB10645	Ac-SRYKWH GMRDPKGTMSC VWVKF-NH2 (SEQ ID NO: 1084)	3.79	62		27	12
JB10646	Ac-SRYKWH GMRDMPGTMSG VWVKF-NH2 (SEQ ID NO: 1173)				4	1
JB10647	Ac-SRYKWH GMRDMKPTMSG VWVKF-NH2 (SEQ ID NO: 1249)				4	2
JB10648	Ac-SRYKWH GMRDMKGPMSC VWVKF-NH2 (SEQ ID NO: 1174)				4	0
JB10649	Ac-SRYKWH GMRDMKGTMSG VWVKF-NH2 (SEQ ID NO: 1175)				5	2
JB10650	Ac-SRYKWH GMRDMKGTMPG VWVKF-NH2 (SEQ ID NO: 1250)				0	0
JB10659	비오리날-1ids-SRYKWH GMRDMKGTMSG VWVKF-NH2 (SEQ ID NO: 1291)				63	38
JB10787	Ac-SRYKWH G-SeMet-RD-SeMet-KGT-SeMet-SC VWVKF-NH2 (SEQ ID NO: 1292)				68	56

도면23e

JBT1416	Ac-DRYKWF(CGMRD MKGTMS C) VVVKF-NH2 (SEQ ID NO: 1007)		0.58	93	68	46
JBT1417	Ac-SDYKWF(CGMRD MKGTMS C) VVVKF-NH2 (SEQ ID NO: 1116)				34	13
JBT1418	Ac-SRDKWF(CGMRD MKGTMS C) VVVKF-NH2 (SEQ ID NO: 1176)				15	5
JBT1419	Ac-SRYDWFC(GMRD MKGTMS C) VVVKF-NH2 (SEQ ID NO: 1117)				31	10
JBT1420	Ac-SRYKDF(CGMRD MKGTMS C) VVVKF-NH2 (SEQ ID NO: 1251)			0	0	0
JBT1421	Ac-SRYKWID(CGMRD MKGTMS C) VVVKF-NH2 (SEQ ID NO: 1252)				2	2
JBT1422	Ac-SRYKWF(CGMRD MKGTMS C) VVVKF-NH2 (SEQ ID NO: 1253)				0	0
JBT1423	Ac-SRYKWF(CGDRD MKGTMS C) VVVKF-NH2 (SEQ ID NO: 1177)				1	0
JBT1424	Ac-SRYKWF(CGMD MKGTMS C) VVVKF-NH2 (SEQ ID NO: 1254)				4	1
JBT1425	Ac-SRYKWF(CGMRD MKGTMS C) VVVKF-NH2 (SEQ ID NO: 1085)				53	28
JBT1426	Ac-SRYKWF(CGMRD MKGTMS C) VVVKF-NH2 (SEQ ID NO: 1008)	0.19		96	81	66
JBT1427	Ac-SRYKWF(CGMRD MKGTMS C) VVVKF-NH2 (SEQ ID NO: 1052)				57	31
JBT1428	Ac-SRYKWF(CGMRD MKGTMS C) VVVKF-NH2 (SEQ ID NO: 1118)				28	6
JBT1429	Ac-SRYKWF(CGMRD MKGTMS C) VVVKF-NH2 (SEQ ID NO: 1086)				49	21
JBT1430	Ac-SRYKWF(CGMRD MKGTMS C) VVVKF-NH2 (SEQ ID NO: 1119)				37	15
JBT1431	Ac-SRYKWF(CGMRD MKGTMS C) VVVKF-NH2 (SEQ ID NO: 1255)				0	0
JBT1432	Ac-SRYKWF(CGMRD MKGTMS C) VVVKF-NH2 (SEQ ID NO: 1256)				0	0
JBT1433	Ac-SRYKWF(CGMRD MKGTMS C) VVVKF-NH2 (SEQ ID NO: 1257)				0	0
JBT1434	Ac-SRYKWF(CGMRD MKGTMS C) VVVKF-NH2 (SEQ ID NO: 1120)				28	9
JBT1435	Ac-SRYKWF(CGMRD MKGTMS C) VVVKF-NH2 (SEQ ID NO: 1009)				61	34
JBT1436	Ac-ERYKWF(CGMRD MKGTMS C) VVVKF-NH2 (SEQ ID NO: 1053)	0.68		95	71	45
JBT1437	Ac-SFYKWF(CGMRD MKGTMS C) VVVKF-NH2 (SEQ ID NO: 1010)	0.27		95	80	64
JBT1438	Ac-SRFKWF(CGMRD MKGTMS C) VVVKF-NH2 (SEQ ID NO: 1011)	0.69		88	64	43
JBT1439	Ac-SRYFWF(CGMRD MKGTMS C) VVVKF-NH2 (SEQ ID NO: 1121)				35	14
JBT1440	Ac-SRYKF(CGMRD MKGTMS C) VVVKF-NH2 (SEQ ID NO: 1258)				3	2
JBT1441	Ac-SRYKWF(CGMRD MKGTMS C) VVVKF-NH2 (SEQ ID NO: 1259)				7	4
JBT1442	Ac-SRYKWF(CGFRD MKGTMS C) VVVKF-NH2 (SEQ ID NO: 1778)				10	3
JBT1443	Ac-SRYKWF(CGMFDMKGTMS C) VVVKF-NH2 (SEQ ID NO: 1779)				22	7
JBT1444	Ac-SRYKWF(CGMRF MKGTMS C) VVVKF-NH2 (SEQ ID NO: 1260)				7	5

도면23f

JB11445	Ac-SRYKWEICGMRDMEKGTMSC VWVKF-NH2 (SEQ ID NO: 1012)	0.77	89	64	41
JB11446	Ac-SRYKWEICGMRDMEGTMSC VWVKF-NH2 (SEQ ID NO: 1054)	0.68	93	69	45
JB11447	Ac-SRYKWEICGMRDMEKGTMSC VWVKF-NH2 (SEQ ID NO: 1227)			46	21
JB11448	Ac-SRYKWEICGMRDMEKGTMSC VWVKF-NH2 (SEQ ID NO: 1123)	0.99	86	60	34
JB11449	Ac-SRYKWEICGMRDMEKGTSC VWVKF-NH2 (SEQ ID NO: 1013)	0.40	89	74	53
JB11450	Ac-SRYKWEICGMRDMEKGTMC VWVKF-NH2 (SEQ ID NO: 1124)			44	17
JB11451	Ac-SRYKWEICGMRDMEKGTMSC FWVKF-NH2 (SEQ ID NO: 1087)			34	11
JB11452	Ac-SRYKWEICGMRDMEGTMSC VFWKF-NH2 (SEQ ID NO: 1125)			27	5
JB11453	Ac-SRYKWEICGMRDMEKGTMSC VWFKF-NH2 (SEQ ID NO: 1261)			6	1
JB11454	Ac-SRYKWEICGMRDMEKGTMSC VWVF-NH2 (SEQ ID NO: 1262)			47	22
JB11455	Ac-SRYKWEICGMRDMEKGTMSC VWVKF-NH2 (SEQ ID NO: 1014)	0.79	87	62	40
JB11456	Ac-SGYKWEICGMRDMEKGTMSC VWVKF-NH2 (SEQ ID NO: 1126)			41	15
JB11457	Ac-SRGKWEICGMRDMEKGTMSC VWVKF-NH2 (SEQ ID NO: 1180)			15	4
JB11458	Ac-SRYGWEICGMRDMEKGTMSC VWVKF-NH2 (SEQ ID NO: 1127)			32	10
JB11459	Ac-SRYKGHCIGMRDMEKGTMSC VWVKF-NH2 (SEQ ID NO: 1263)			0	0
JB11460	Ac-SRYKWEICGMRDMEKGTMSC VWVKF-NH2 (SEQ ID NO: 1264)			0	0
JB11461	Ac-SRYKWEICGGRDMEKGTMSC VWVKF-NH2 (SEQ ID NO: 1181)			8	0
JB11462	Ac-SRYKWEICMGCDMEKGTMSC VWVKF-NH2 (SEQ ID NO: 1128)			33	15
JB11463	Ac-SRYKWEICMGKMEKGTMSC VWVKF-NH2 (SEQ ID NO: 1129)			23	10
JB11464	Ac-SRYKWEICGMRDGEKGTMSC VWVKF-NH2 (SEQ ID NO: 1088)			50	25
JB11465	Ac-SRYKWEICGMRDMEGTMSC VWVKF-NH2 (SEQ ID NO: 1015)	0.84	92	60	41
JB11466	Ac-SRYKWEICGMRDMEGGMSC VWVKF-NH2 (SEQ ID NO: 1055)			53	26
JB11467	Ac-SRYKWEICGMRDMEKGTSC VWVKF-NH2 (SEQ ID NO: 1130)			27	11
JB11468	Ac-SRYKWEICGMRDMEKGTMGCIWVKF-NH2 (SEQ ID NO: 1131)			25	9
JB11469	Ac-SRYKWEICGMRDMEKGTMSGVVKF-NH2 (SEQ ID NO: 1182)			4	0
JB11470	Ac-SRYKWEICGMRDMEKGTMSC VGVKF-NH2 (SEQ ID NO: 1265)			0	0
JB11471	Ac-SRYKWEICGMRDMEKGTMSGVWVKF-NH2 (SEQ ID NO: 1266)			4	0
JB11472	Ac-SRYKWEICGMRDMEKGTMSC VWVGK-NH2 (SEQ ID NO: 1089)			48	21
JB11473	Ac-SRYKWEICGMRDMEKGTMSGVWVK-NH2 (SEQ ID NO: 1090)			40	16

23g
도면

JB11474	Ac-KRYKWF(CGMRD)MKGT(MSC VWVKF-NH2 (SEQ ID NO: 1016)	0.37	90	75	55
JB11475	Ac-SRYKWF(CGMRD)MKGT(MSC VWVKF-NH2 (SEQ ID NO: 1056)			63	37
JB11476	Ac-SRKKWF(CGMRD)MKGT(MSC VWVKF-NH2 (SEQ ID NO: 1132)			31	11
JB11477	Ac-SRYKKF(CGMRD)MKGT(MSC VWVKF-NH2 (SEQ ID NO: 1267)			0	0
JB11478	Ac-SRYKWK(CGMRD)MKGT(MSC VWVKF-NH2 (SEQ ID NO: 1091)			45	18
JB11479	Ac-SRYKWF(CGMRD)MKGT(MSC VWVKF-NH2 (SEQ ID NO: 1183)			14	2
JB11480	Ac-SRYKWF(CGKR)DMKGT(MSC VWVKF-NH2 (SEQ ID NO: 1133)			27	9
JB11481	Ac-SRYKWF(CGMKD)MKGT(MSC VWVKF-NH2 (SEQ ID NO: 1017)	0.37	88	71	54
JB11482	Ac-SRYKWF(CGMR)MKGT(MSC VWVKF-NH2 (SEQ ID NO: 1184)			9	1
JB11483	Ac-SRYKWF(CGMRD)KKGT(MSC VWVKF-NH2 (SEQ ID NO: 1057)	0.99	83	60	32
JB11484	Ac-SRYKWF(CGMRD)MKGT(MSC VWVKF-NH2 (SEQ ID NO: 1134)			30	10
JB11485	Ac-SRYKWF(CGMRD)MKGT(MSC VWVKF-NH2 (SEQ ID NO: 1058)			56	32
JB11486	Ac-SRYKWF(CGMRD)MKGT(MK KSC VWVKF-NH2 (SEQ ID NO: 1059)			58	34
JB11487	Ac-SRYKWF(CGMRD)MKGT(MC VWVKF-NH2 (SEQ ID NO: 1135)			30	9
JB11488	Ac-SRYKWF(CGMRD)MKGT(MSC KWKV-NH2 (SEQ ID NO: 1268)			3	0
JB11489	Ac-SRYKWF(CGMRD)MKGT(MSC VKVF-NH2 (SEQ ID NO: 1269)			0	0
JB11490	Ac-SRYKWF(CGMRD)MKGT(MSC VWKKF-NH2 (SEQ ID NO: 1270)			0	1
JB11491	Ac-SRYKWF(CGMRD)MKGT(MSC VWKKF-NH2 (SEQ ID NO: 1136)			26	6
JB11492	Ac-LRYKWF(CGMRD)MKGT(MSC VWVKF-NH2 (SEQ ID NO: 1018)	0.47	91	72	52
JB11493	Ac-SLRYKWF(CGMRD)MKGT(MSC VWVKF-NH2 (SEQ ID NO: 1060)			74	54
JB11494	Ac-SRLKWF(CGMRD)MKGT(MSC VWVKF-NH2 (SEQ ID NO: 1137)	0.48	96	22	6
JB11495	Ac-SRYLWF(CGMRD)MKGT(MSC VWVKF-NH2 (SEQ ID NO: 1138)			30	10
JB11496	Ac-SRYKLF(CGMRD)MKGT(MSC VWVKF-NH2 (SEQ ID NO: 1271)			0	0
JB11497	Ac-SRYKWL(CGMRD)MKGT(MSC VWVKF-NH2 (SEQ ID NO: 1061)			58	33
JB11499	Ac-SRYKWF(CGLRDM)MKGT(MSC VWVKF-NH2 (SEQ ID NO: 1272)			21	7
JB11500	Ac-SRYKWF(CGMLDMK)GT(MSC VWVKF-NH2 (SEQ ID NO: 1062)			60	34
JB11501	Ac-SRYKWF(CGMR)LMKGT(MSC VWVKF-NH2 (SEQ ID NO: 1185)			14	3
JB11502	Ac-SRYKWF(CGMRD)LMKGT(MSC VWVKF-NH2 (SEQ ID NO: 1019)	0.33	93	76	59

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JB11503	Ac-SRYKWF(CGMRDMLGTMSC)YWKFNH2 (SEQ ID NO: 1063)				66	44
JB11504	Ac-SRYKWF(CGMRDMKLTMSC)YWKFNH2 (SEQ ID NO: 1140)	0.53	83		37	13
JB11505	Ac-SRYKWF(CGMRDMKGLTMSC)YWKFNH2 (SEQ ID NO: 1092)				66	42
JB11506	Ac-SRYKWF(CGMRDMKGTLSCT)YWKFNH2 (SEQ ID NO: 1064)	0.89	91		63	39
JB11507	Ac-SRYKWF(CGMRDMKGTMLC)YWKFNH2 (SEQ ID NO: 10141)				35	11
JB11508	Ac-SRYKWF(CGMRDMKGTMLC)YWKFNH2 (SEQ ID NO: 1093)				52	27
JB11509	Ac-SRYKWF(CGMRDMKGTMSC)YLKFNH2 (SEQ ID NO: 1273)				3	0
JB11510	Ac-SRYKWF(CGMRDMKGTMSC)YWKFNH2 (SEQ ID NO: 1094)				51	27
JB11511	Ac-SRYKWF(CGMRDMKGTMSC)YVLE-NH2 (SEQ ID NO: 1142)				52	27
JB11512	Ac-SRYKWF(CGMRDMKGTMSC)YWKFNH2 (SEQ ID NO: 1020)	0.37	91		72	55
JB11513	Ac-SSYKWF(CGMRDMKGTMSC)YWKFNH2 (SEQ ID NO: 1065)				63	40
JB11514	Ac-SRSKWF(CGMRDMKGTMSC)YWKFNH2 (SEQ ID NO: 1066)				51	27
JB11515	Ac-SRYSWF(CGMRDMKGTMSC)YWKFNH2 (SEQ ID NO: 1143)				32	11
JB11516	Ac-SRYKSF(CGMRDMKGTMSC)YWKFNH2 (SEQ ID NO: 1274)				0	0
JB11517	Ac-SRYKWS(CGMRDMKGTMSC)YWKFNH2 (SEQ ID NO: 1275)				1	0
JB11518	Ac-SRYKWF(CGMRDMKGTMSC)YWKFNH2 (SEQ ID NO: 1021)				62	39
JB11519	Ac-SRYKWF(CGSRDMKGTMSC)YWKFNH2 (SEQ ID NO: 1186)				11	3
JB11520	Ac-SRYKWF(CGMSDMKGTMSC)YWKFNH2 (SEQ ID NO: 1095)				45	20
JB11521	Ac-SRYKWF(CGMRSMKGTMSC)YWKFNH2 (SEQ ID NO: 1096)				44	21
JB11522	Ac-SRYKWF(CGMRDSKGTMSC)YWKFNH2 (SEQ ID NO: 1067)				56	32
JB11523	Ac-SRYKWF(CGMRDMSGTMSC)YWKFNH2 (SEQ ID NO: 1022)	0.50	91		70	51
JB11524	Ac-SRYKWF(CGMRDMKSTMSC)YWKFNH2 (SEQ ID NO: 1144)				39	16
JB11525	Ac-SRYKWF(CGMRDMKGSMSC)YWKFNH2 (SEQ ID NO: 1068)				68	46
JB11526	Ac-SRYKWF(CGMRDMKGTSSCT)YWKFNH2 (SEQ ID NO: 1069)				53	32
JB11527	Ac-SRYKWF(CGMRDMKGTMSC)SWKFNH2 (SEQ ID NO: 1097)				43	20
JB11528	Ac-SRYKWF(CGMRDMKGTMSC)SVKFNH2 (SEQ ID NO: 1276)				2	0
JB11529	Ac-SRYKWF(CGMRDMKGTMSC)YVSKFNH2 (SEQ ID NO: 1277)				1	0
JB11530	Ac-SRYKWF(CGMRDMKGTMSC)YVVSFNH2 (SEQ ID NO: 1070)				54	31
JB11531	Ac-SRYKWF(CGMRDMKGTMSC)YVVS-NH2 (SEQ ID NO: 1071)				50	28

도면23i

JB11532	Ac-PRYKWEICGMRDMDKGTMSCJVVVKF-NH2 (SEQ ID NO: 1072)				62	38
JB11533	Ac-SPYKWEICGMRDMDKGTMSCJVVVKF-NH2 (SEQ ID NO: 1145)				31	10
JB11534	Ac-SRPKWEICGMRDMDKGTMSCJVVVKF-NH2 (SEQ ID NO: 1187)				2	0
JB11535	Ac-SRYPWEICGMRDMDKGTMSCJVVVKF-NH2 (SEQ ID NO: 1278)				0	1
JB11536	Ac-SRYKPEICGMRDMDKGTMSCJVVVKF-NH2 (SEQ ID NO: 1279)				0	0
JB11537	Ac-SRYKWPICGMRDMDKGTMSCJVVVKF-NH2 (SEQ ID NO: 1280)				0	0
JB11538	Ac-SRYKWEICGMRDMDKGTMSCJVVVKF-NH2 (SEQ ID NO: 1281)				2	2
JB11539	Ac-SRYKWEICGMRDMDKGTMSCJVVVKF-NH2 (SEQ ID NO: 1282)				0	0
JB11540	Ac-SRYKWEICGMRDMDKGTMSCJVVVKF-NH2 (SEQ ID NO: 1283)				0	0
JB11541	Ac-SRYKWEICGMRDMDKGTMSCJVVVKF-NH2 (SEQ ID NO: 1023)	0.47		89	69	49
JB11542	Ac-SRYKWEICGMRDMDKGTMSCJVVVKF-NH2 (SEQ ID NO: 1188)				15	3
JB11543	Ac-SRYKWEICGMRDMDKGTMSCJVVVKF-NH2 (SEQ ID NO: 1098)				44	20
JB11544	H-SRYKWEICGMRDMDKGTMSCJVVVKF-NH2 (SEQ ID NO: 1024)	0.64		88	67	44
JB11545	H-SRYKWEICGMRDMDKGTMSCJVVVKF-NH2 (SEQ ID NO: 1099)				40	20
JB11546	Ac-SRYKWEICGMRDMDKGTMSCJVVVKF-NH2 (SEQ ID NO: 1284)				3	2
JB11547	Ac-SRYKWEICGMRDMDKGTMSCJVVVKF-NH2 (SEQ ID NO: 1285)				2	0
JB11548	Ac-SRYKWEICGMRDMDKGTMSCJVVVKF-NH2 (SEQ ID NO: 1286)				6	3
JB11549	Ac-SRYKWEICGMRDMDKGTMSCJVVVKF-NH2 (SEQ ID NO: 1189)				9	3
JB11550	Ac-SRYKWEICGMRDMDKGTMSCJVVVKF-NH2 (SEQ ID NO: 1190)				20	10
JB11551	Ac-SRYKWEICGMRDMDKGTMSCJVVVKF-NH2 (SEQ ID NO: 1146)				31	13
JB11552	Ac-SRYKWEICGMRDMDKGTMSCJVVVKF-NH2 (SEQ ID NO: 1147)				32	12
JB11553	Ac-SRYKWEICGMRDMDKGTMSCJVVVKF-NH2 (SEQ ID NO: 1148)				36	15
JB11554	Ac-SRYKWEICGMRDMDKGTMSCJVVVKF-NH2 (SEQ ID NO: 1287)				6	2
JB11555	Ac-SRYKWEICGMRDMDKGTMSCJVVVKF-NH2 (SEQ ID NO: 1191)				8	2
JB11556	Ac-SRYKWEICGMRDMDKGTMSCJVVVKF-NH2 (SEQ ID NO: 1288)				5	0
JB11557	H-RYKWEICGMRDMDKGTMSCJVVVKF-NH2 (SEQ ID NO: 117)				53	27
JB11558	H-YKWEICGMRDMDKGTMSCJVVVKF-NH2 (SEQ ID NO: 1149)				17	3
JB11559	Ac-SRYKWEICGMRDMDKGTMSCJVVVKF-NH2 (SEQ ID NO: 1150)				29	10
JB11560	Ac-SRYKWEICGMRDMDKGTMSCJVVVKF-NH2 (SEQ ID NO: 1289)				1	1

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JB11561	Ac-SRYKWEICGIRDMKGTMSC VWVKI-NH2 (SEQ ID NO: 1192)			9	1
JB11562	Ac-SRYKWEICGRRDMKGTMSC VWVKI-NH2 (SEQ ID NO: 1193)			5	1
JB11563	Ac-SRYKWEICGIRDMKGTMSC VWVKI-NH2 (SEQ ID NO: 1194)			14	6
JB11564	Ac-SRYKWEICGpRDMKGTMSC VWVKI-NH2 (SEQ ID NO: 1100)			65	40
JB11565	Ac-SRYKWEICGSRDMKGTMSC VWVKI-NH2 (SEQ ID NO: 1195)			13	3
JB11566	Ac-SRYKWEICGMRDakGTMSC VWVKI-NH2 (SEQ ID NO: 1151)			33	13
JB11567	Ac-SRYKWEICGMRDakGTMSC VWVKI-NH2 (SEQ ID NO: 1101)			45	21
JB11568	Ac-SRYKWEICGMRDkGTMSC VWVKI-NH2 (SEQ ID NO: 1074)			63	38
JB11569	Ac-SRYKWEICGMRDkGTMSC VWVKI-NH2 (SEQ ID NO: 1102)			50	23
JB11570	Ac-SRYKWEICGMRDkGTMSC VWVKI-NH2 (SEQ ID NO: 1025)	0.74	88	62	43
JB11571	Ac-SRYKWEICGMRDpKGTMSC VWVKI-NH2 (SEQ ID NO: 1196)			15	5
JB11572	Ac-SRYKWEICGMRDsKGTMSC VWVKI-NH2 (SEQ ID NO: 1152)			28	9
JB11573	Ac-SRYKWEICGMRDmGTMSC VWVKI-NH2 (SEQ ID NO: 1197)			20	4
JB11574	Ac-SRYKWEICGMRDmGTMSC VWVKI-NH2 (SEQ ID NO: 1153)			39	15
JB11575	Ac-SRYKWEICGMRDMGTMSC VWVKI-NH2 (SEQ ID NO: 1198)			18	3
JB11576	Ac-SRYKWEICGMRDMGTMSC VWVKI-NH2 (SEQ ID NO: 1199)			19	6
JB11577	Ac-SRYKWEICGMRDMPGTMSC VWVKI-NH2 (SEQ ID NO: 1200)			14	2
JB11578	Ac-SRYKWEICGMRDMGTMSC VWVKI-NH2 (SEQ ID NO: 1154)			30	10

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JB10122 클레스		FXa 억제 분석			
펩티드	서열	EC50 (μ M)	최대 억제 (%)	2.5 μ M에서 % 억제	0.63 μ M에서 % 억제
JB10122	Ac-SGYASFP ₁ AVQ ₁ HVSKRSKEMALARLYYKTS-NH ₂ (SEQ ID NO: 2002)	7.92		23	
JB10126	비오한-Tids-SGYASFP ₁ AVQ ₁ HVSKRSKEMALARLYYKTS-NH ₂ (SEQ ID NO: 2498)	14.10		17	
JB10221	Ac-KKSGYASFP ₁ AVQ ₁ HVSKRSKEMALARLYYKTSKK-NH ₂ (SEQ ID NO: 2003)			29	
JB10222*	Ac-MKSRSLGLAYFAKHSSLEVLQTRKVAAPYY-NH ₂ (SEQ ID NO: 2127)			0	
JB10223*	Ac-KMQ ₁ LRVYASTAHSRYL ₁ GSSLPK ₁ VAPEVKA-NH ₂ (SEQ ID NO: 2297)			0	
JB10224	Ac-KKSGYASFP ₁ AVQ ₁ HVSKRSKEMALARLYYKK-NH ₂ (SEQ ID NO: 2298)			26	
JB10225	Ac-KKSGYASFP ₁ AVQ ₁ HVSKRSKEMALARKK-NH ₂ (SEQ ID NO: 2128)			12	
JB10226	Ac-KKSGYASFP ₁ AVQ ₁ HVSKRSKEMAKK-NH ₂ (SEQ ID NO: 2299)			6	
JB10227	Ac-KKSGYASFP ₁ AVQ ₁ HVSKRSKKK-NH ₂ (SEQ ID NO: 2300)			0	
JB10228	Ac-KKASFP ₁ AVQ ₁ HVSKRSKEMALARLYYKTSKK-NH ₂ (SEQ ID NO: 2016)			21	
JB10229	Ac-KKPLAVQ ₁ HVSKRSKEMALARLYYKTSKK-NH ₂ (SEQ ID NO: 2129)			0	
JB10230	Ac-KK ₁ VQ ₁ LHVSKRSKEMALARLYYKTSKK-NH ₂ (SEQ ID NO: 2301)			0	
JB10231	Ac-KKHVSKRSKEMALARLYYKTSKK-NH ₂ (SEQ ID NO: 2302)			0	
JB10232	Ac-KKGYASFP ₁ AVQ ₁ HVSKRSKEMAKK-NH ₂ (SEQ ID NO: 2303)			6	
JB10233	Ac-KKYASFP ₁ AVQ ₁ HVSKRSKEMAKK-NH ₂ (SEQ ID NO: 2304)			8	
JB10234	Ac-KK ₁ VQ ₁ LHVSKRSKEMALARLYYKKK-NH ₂ (SEQ ID NO: 2305)			0	
JB10235	Ac-KKQ ₁ LHVSKRSKEMALARLYYKTKK-NH ₂ (SEQ ID NO: 2306)			0	
JB10236	Ac-KKLHVSKRSKEMALARLYYKTSKK-NH ₂ (SEQ ID NO: 2307)			0	
JB10237	Ac-KKSGYASFP ₁ AVQ ₁ HVSKRSKEMAKK-NH ₂ (SEQ ID NO: 2308)			0	
JB10359	Ac-ASFP ₁ AVQ ₁ HVSKRSKEMAKK-NH ₂ (SEQ ID NO: 2309)			0	

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JB10360	Ac-SFPLAVQJHVSRSKSKEMA-NH2 (SEQ ID NO: 2310)				1	
JB10361	Ac-FPLAVQJHVSRSKSKEMA-NH2 (SEQ ID NO: 2311)				0	
JB10362	Ac-ASFPLAVQJHVSRSKSKEMA-NH2 (SEQ ID NO: 2312)				0	
JB10363	Ac-ASFPLAVQJHVSRSKSKEMA-NH2 (SEQ ID NO: 2313)				0	
JB10364	Ac-ASFPLAVQJHVSRSKSKEMA-NH2 (SEQ ID NO: 2314)				2	
JB10365	Ac-ASFPLAVQJHVSRSKSKEMA-NH2 (SEQ ID NO: 2315)				0	
JB10366	Ac-ASFPLAVQJHVSRSKSKEMA-NH2 (SEQ ID NO: 2316)				0	
JB10367	Ac-ASFPLAVQJHVSRSKSKEMA-NH2 (SEQ ID NO: 2317)				2	
JB10368	Ac-ASFPLAVQJHVSRSKSKEMA-NH2 (SEQ ID NO: 2130)				0	
JB10369	Ac-ASFPLAVQJHVSRSKSKEMA-NH2 (SEQ ID NO: 2017)				2	
JB10370	Ac-YASFPLAVQJHVSRSKSKEMA-NH2 (SEQ ID NO: 2318)				2	
JB10371	Ac-GYASFPLAVQJHVSRSKSKEMA-NH2 (SEQ ID NO: 2319)				8	
JB10660	Ac-AGYASFPLAVQJHVSRSKSKEMA-NH2 (SEQ ID NO: 2004)				5	2
JB10661	Ac-SAYASFPLAVQJHVSRSKSKEMA-NH2 (SEQ ID NO: 2005)				13	5
JB10662	Ac-SGASFPLAVQJHVSRSKSKEMA-NH2 (SEQ ID NO: 2131)				4	0
JB10664	Ac-SGYASFPLAVQJHVSRSKSKEMA-NH2 (SEQ ID NO: 2006)				7	2
JB10665	Ac-SGYASAPLAVQJHVSRSKSKEMA-NH2 (SEQ ID NO: 2132)				2	0
JB10666	Ac-SGYASFPLAVQJHVSRSKSKEMA-NH2 (SEQ ID NO: 2001)				12	6
JB10667	Ac-SGYASFPLAVQJHVSRSKSKEMA-NH2 (SEQ ID NO: 2018)				2	0
JB10669	Ac-SGYASFPLAAVQJHVSRSKSKEMA-NH2 (SEQ ID NO: 2133)				0	0
JB10670	Ac-SGYASFPLAAVQJHVSRSKSKEMA-NH2 (SEQ ID NO: 2007)				6	0
JB10671	Ac-SGYASFPLAVQJHVSRSKSKEMA-NH2 (SEQ ID NO: 2019)				4	1
JB10672	Ac-SGYASFPLAVQJHVSRSKSKEMA-NH2 (SEQ ID NO: 2134)				2	0
JB10673	Ac-SGYASFPLAVQJHVSRSKSKEMA-NH2 (SEQ ID NO: 2135)				0	0
JB10674	Ac-SGYASFPLAVQJHVSRSKSKEMA-NH2 (SEQ ID NO: 2008)				10	3
JB10675	Ac-SGYASFPLAVQJHVSRSKSKEMA-NH2 (SEQ ID NO: 2136)				0	0
JB10676	Ac-SGYASFPLAVQJHVSRSKSKEMA-NH2 (SEQ ID NO: 2137)				0	0
JB10677	Ac-SGYASFPLAVQJHVSRSKSKEMA-NH2 (SEQ ID NO: 2009)				4	0
JB10678	Ac-SGYASFPLAVQJHVSRSKSKEMA-NH2 (SEQ ID NO: 2010)				6	2

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JB10679	Ac-SGYASFP/AVQ/HVSKRSKEMAL/ARL.YYKTS-NH2 (SEQ ID NO: 2020)				2	0
JB10680	Ac-SGYASFP/AVQ/HVSKRSKEAAL/ARL.YYKTS-NH2 (SEQ ID NO: 2138)				0	0
JB10682	Ac-SGYASFP/AVQ/HVSKRSKEMAARL.YYKTS-NH2 (SEQ ID NO: 2139)				2	0
JB10684	Ac-SGYASFP/AVQ/HVSKRSKEMAL/ARL.YYKTS-NH2 (SEQ ID NO: 2011)				5	1
JB10685	Ac-SGYASFP/AVQ/HVSKRSKEMAL/ARL.YYKTS-NH2 (SEQ ID NO: 2021)				4	0
JB10686	Ac-SGYASFP/AVQ/HVSKRSKEMAL/ARL.YYKTS-NH2 (SEQ ID NO: 2140)				3	0
JB10687	Ac-SGYASFP/AVQ/HVSKRSKEMAL/ARL.YYKTS-NH2 (SEQ ID NO: 2141)				3	0
JB10688	Ac-SGYASFP/AVQ/HVSKRSKEMAL/ARL.YYKTS-NH2 (SEQ ID NO: 2012)				8	2
JB10689	Ac-SGYASFP/AVQ/HVSKRSKEMAL/ARL.YYKTS-NH2 (SEQ ID NO: 2013)				10	3
JB10690	Ac-SGYASFP/AVQ/HVAKRSKEMA-NH2 (SEQ ID NO: 2014)				10	3
JB11579	Ac-GYASFP/AVQ/HVAKRSKEMA-NH2 (SEQ ID NO: 2015)				9	4
JB11580	Ac-GYASFP/AVQ/HVAKRSKEMA-NH2 (SEQ ID NO: 2320)				3	1
JB11581	Ac-GYASFP/AVQ/HVAKRSKEMA-NH2 (SEQ ID NO: 2321)				11	4
JB11582	Ac-GYASFP/AVQ/HVAKRSKEMA-NH2 (SEQ ID NO: 2022)				10	3
JB11583	Ac-GYASFP/AVQ/HVAKRSKEMA-NH2 (SEQ ID NO: 2322)				18	5
JB11599	Ac-FPL/AVQ/HVSKRSKEMAL/ARL.YYKTS-NH2 (SEQ ID NO: 2323)				0	0
JB11600	Ac-FPL/AVQ/HVSKRSKEMAL/ARL.YYKTS-NH2 (SEQ ID NO: 2324)				0	0
JB11601	Ac-SGYASFP-NH2 (SEQ ID NO: 2325)				0	0
JB11602	Ac-L/AVQ/HVSKRSKEMAL/ARL.YYKTS-NH2 (SEQ ID NO: 2326)				0	0

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JB10047 클레스		외인성 테나제 억제 분석	
센터드	서열	EC50 (μM)	2.5μM에서 % 억제
JB10047	Ac-SGVGRLQYAFQSKKNVFVFGYFERLRAKLTIS-NH2 (SEQ ID NO: 253)	1.37	20
JB10051	비오린-Tlds-SGVGRLQYAFQSKKNVFVFGYFERLRAKLTIS-NH2 (SEQ ID NO: 962)	1.04	19
JB10055	Ac-SGVGRLQYAFQSKKNVFVFGYFERLRAKLTIS-Tlds-라아신(비오린)-NH2 (SEQ ID NO: 963)	1.67	25
JB10131	비오린-Tlds-AFQSKKNVFVFGYFERLRAK-NH2 (SEQ ID NO: 964)	2.02	11
JB10132	비오린-Tlds-FQSKKNVFVFGYFERLRAKL-NH2 (SEQ ID NO: 965)		11
JB10133	비오린-Tlds-QSKKNVFVFGYFERLRAKLT-NH2 (SEQ ID NO: 966)		9
JB10134	비오린-Tlds-QSKKNVFVFGYFERLRAK-NH2 (SEQ ID NO: 967)		3
JB10155	Ac-KKSGVGRLQYAFQSKKNVFVFGYFERLRAKLTSSK-NH2 (SEQ ID NO: 8)	0.38	33
JB10158	Ac-KKSGVGRLQYAFQSKKNVFVFGYFERLRAKKK-NH2 (SEQ ID NO: 9)		23
JB10159	Ac-KKSGVGRLQYAFQSKKNVFVFGYFERLRKK-NH2 (SEQ ID NO: 744)		18
JB10160	Ac-KKSGVGRLQYAFQSKKNVFVFGYFKK-NH2 (SEQ ID NO: 745)		22
JB10161	Ac-KKSGVGRLQYAFQSKKNVFVFKK-NH2 (SEQ ID NO: 746)		6
JB10162	Ac-KKGRLQYAFQSKKNVFVFGYFERLRAKLTSSK-NH2 (SEQ ID NO: 10)	0.28	34
JB10163	Ac-KKQYAFQSKKNVFVFGYFERLRAKLTSSK-NH2 (SEQ ID NO: 11)	0.89	31
JB10164	Ac-KKFQSKKNVFVFGYFERLRAKLTSSK-NH2 (SEQ ID NO: 12)	2.68	24
JB10165	Ac-KKKKNVFVFGYFERLRAKLTSSK-NH2 (SEQ ID NO: 712)		15
JB10166	비오린-Tlds-KKFQSKKNVFVFGYFERLRAKLKK-NH2 (SEQ ID NO: 968)	1.95	36
JB10169	Ac-KKAFQSKKNVFVFGYFERLRAKKK-NH2 (SEQ ID NO: 254)	2.35	20
JB10170	Ac-KKFQSKKNVFVFGYFERLRAKLKK-NH2 (SEQ ID NO: 13)	1.90	30

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JB10171	Ac-KKQSKKNVFVFGYFIERLRAKLITKK-NH2 (SEQ ID NO: 255)	4.12	13
JB10172	Ac-KKQSKKNVFVFGYFIERLRAKKN-NH2 (SEQ ID NO: 406)	3.98	8
JB10173	비오타닐-Tids-SGVGRLOVAFQSKKNVFVG-NH2 (SEQ ID NO: 971)		3
JB10174	Ac-KKAFQSKKNVFVFGYFIERLRAKLKK-NH2 (SEQ ID NO: 14)	2.90	26
JB10175	Ac-KKAFQSKKNVFVFGYFIERLRAKLITKK-NH2 (SEQ ID NO: 182)	2.29	26
JB10293	Ac-IQSKKNVFVFGYFIERLRAKL-NH2 (SEQ ID NO: 256)	1.62	16
JB10294	Ac-YQSKKNVFVFGYFIERLRAKL-NH2 (SEQ ID NO: 257)	5.31	9
JB10295	Ac-IFSSKKNVFVFGYFIERLRAKL-NH2 (SEQ ID NO: 713)	1.80	10
JB10296	Ac-IQNKKNVFVFGYFIERLRAKL-NH2 (SEQ ID NO: 407)	7.83	10
JB10297	Ac-IFQSKNNVFVFGYFIERLRAKL-NH2 (SEQ ID NO: 183)		13
JB10298	Ac-IFQSKQNVFVFGYFIERLRAKL-NH2 (SEQ ID NO: 747)		15
JB10299	Ac-IFQSKKNVFAFGYFIERLRAKL-NH2 (SEQ ID NO: 408)		5
JB10300	Ac-IFQSKKNVFSFGYFIERLRAKL-NH2 (SEQ ID NO: 409)		3
JB10301	Ac-IFQSKKNVFTFGYFIERLRAKL-NH2 (SEQ ID NO: 410)		0
JB10302	Ac-IFQSKKNVFAFGYFIERLRAKL-NH2 (SEQ ID NO: 258)		3
JB10303	Ac-IFQSKKNVFDGYFIERLRAKL-NH2 (SEQ ID NO: 184)	8.80	9
JB10304	Ac-IFQSKKNVEVLGYFIERLRAKL-NH2 (SEQ ID NO: 259)		7
JB10305	Ac-IFQSKKNVFVQGYFIERLRAKL-NH2 (SEQ ID NO: 260)		0
JB10306	Ac-IFQSKKNVFSGYFIERLRAKL-NH2 (SEQ ID NO: 185)		3
JB10307	Ac-IFQSKKNVFVYGYFIERLRAKL-NH2 (SEQ ID NO: 261)	8.72	4
JB10308	Ac-IFQSKKNVFVFGYKIERLRAKL-NH2 (SEQ ID NO: 411)		4
JB10309	Ac-IFQSKKNVFVFGYFIERLRAKL-NH2 (SEQ ID NO: 412)	8.55	7
JB10310	Ac-IFQSKKNVFVFGYFDRLRAKL-NH2 (SEQ ID NO: 262)		5
JB10311	Ac-IFQSKKNVFVFGYFIERLRAKN-NH2 (SEQ ID NO: 748)	3.72	10
JB10335	Ac-IFQSKKNVFVFGYFIERLRAKN-NH2 (SEQ ID NO: 749)	10.48	5
JB10336	Ac-IFQSKNNVFVAGYFDRLRAKL-OH (SEQ ID NO: 263)	12.13	5

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JB10337	Ac-FQSKNNVFVDGYFDRLRAKL-NH2 (SEQ ID NO: 16)	13.33	15
JB10338	Ac-FQSKNNVFVQGYFDRLRAKL-NH2 (SEQ ID NO: 17)	8.42	9
JB10339	Ac-FQSKNNVFVSGYFDRLRAKL-NH2 (SEQ ID NO: 18)		9
JB10340	Ac-FQSKNNVFVYGYFDRLRAKL-NH2 (SEQ ID NO: 186)		9
JB10341	Ac-FQSKNNVFVGYFDRLRAKL-NH2 (SEQ ID NO: 187)	8.68	10
JB10342	Ac-FQSKNNVFVDGYFDRLRAKL-NH2 (SEQ ID NO: 19)	7.15	18
JB10343	Ac-FQSKNNVFVDGYFDRLRAKL-NH2 (SEQ ID NO: 188)		8
JB10374	Ac-FQSKDNVFVGYFEERLRAKL-NH2 (SEQ ID NO: 20)		19
JB10375	Ac-FQSKGNVFVGYFEERLRAKL-NH2 (SEQ ID NO: 190)	2.93	30
JB10376	Ac-FQSKKNVFVGYFEERLRAKL-NH2 (SEQ ID NO: 414)		3
JB10377	Ac-FQSKKNQFVGYFEERLRAKL-NH2 (SEQ ID NO: 264)		8
JB10378	Ac-FQSKKNVFVEGYFEERLRAKL-NH2 (SEQ ID NO: 21)	9.03	12
JB10379	Ac-FQSKKNVFVTGYFEERLRAKL-NH2 (SEQ ID NO: 22)		6
JB10380	Ac-FQSKKNVFVGYFEERLRAKL-NH2 (SEQ ID NO: 191)	7.58	10
JB10381	Ac-FQSPKNVFVGYFEERLRAKL-NH2 (SEQ ID NO: 265)		9
JB10385	Ac-FQSKKNVFVEGYFEERLRAKL-NH2 (SEQ ID NO: 672)		2
JB10386	Ac-FQSKKNPFVGYFEERLRAKL-NH2 (SEQ ID NO: 415)		5
JB10388	Ac-FQSKKNVHVGYFEERLRAKL-NH2 (SEQ ID NO: 192)		6
JB10389	Ac-FQSKKNVVVGYFEERLRAKL-NH2 (SEQ ID NO: 673)		8
JB10390	Ac-FQSKKNVFQGYFEERLRAKL-NH2 (SEQ ID NO: 674)		5
JB10391	Ac-FQSKKNVFVGGYFEERLRAKL-NH2 (SEQ ID NO: 266)		1
JB10392	Ac-FQSKKNVFVHGYFEERLRAKL-NH2 (SEQ ID NO: 23)		4
JB10393	Ac-FQSKKNVFVKGYFEERLRAKL-NH2 (SEQ ID NO: 193)		3
JB10394	Ac-FQSKKNVFVMGYFEERLRAKL-NH2 (SEQ ID NO: 24)	4.38	8
JB10395	Ac-FQSKKNVFVNGYFEERLRAKL-NH2 (SEQ ID NO: 25)		7
JB10396	Ac-FQSKKNVFVPGYFEERLRAKL-NH2 (SEQ ID NO: 194)	8.71	6

JB10397	Ac-FQSKKNVFVRGYFERLRAKL-NH2 (SEQ ID NO: 195)		4
JB10398	Ac-FQSKKNVVFVGYFELLRAKL-NH2 (SEQ ID NO: 196)		8
JB10399	Ac-FQSKKNVVFVGYFELLRAKL-NH2 (SEQ ID NO: 750)		7
JB10400	Ac-FQSKKNVVFVGYFLRLRAKL-NH2 (SEQ ID NO: 267)		13
JB10401	Ac-FQSKKNVVFVGYFERLRAVL-NH2 (SEQ ID NO: 416)		4
JB10402	비오린-Tlds-FQSKNNVVFVGYFERLRAKL-NH2 (SEQ ID NO: 973)		11
JB10403	비오린-Tlds-FQSKNNVFDGTYFERLRAKL-NH2 (SEQ ID NO: 972)		9
JB10404	비오린-Tlds-FQSKKNVVFVGYFDRLRAKL-NH2 (SEQ ID NO: 974)	3.38	14
JB10405	비오린-FQSKKNVVFVGYFERLRAKL-NH2 (SEQ ID NO: 975)		15
JB10406	Ac-Tlds-FQSKKNVVFVGYFERLRAKL-NH2 (SEQ ID NO: 268)		9
JB10471	Ac-FQSKGNVVFVGYFERLRAKL-NH2 (SEQ ID NO: 26)		32
JB10472	Ac-FQSKGNVVFVNGYFERLRAKL-NH2 (SEQ ID NO: 27)		22
JB10473	Ac-FQSKGNVVFVHGTYFERLRAKL-NH2 (SEQ ID NO: 28)		24
JB10474	Ac-FQSKGNVVFVKGTYFERLRAKL-NH2 (SEQ ID NO: 29)		33
JB10475	Ac-FQSKGNVVFVGYFERLRAKL-NH2 (SEQ ID NO: 30)		30
JB10476	Ac-FQSKGNVFDGTYFDRLRAKL-NH2 (SEQ ID NO: 31)		33
JB10477	Ac-FQSKGNVFDGTYFERLRAKL-NH2 (SEQ ID NO: 32)	2.22	36
JB10478	Ac-FQSKDNVVFVGYFERLRAKL-NH2 (SEQ ID NO: 33)		19
JB10479	Ac-FQSKDNVVFVNGYFERLRAKL-NH2 (SEQ ID NO: 34)		18
JB10480	Ac-FQSKDNVVFVHGTYFERLRAKL-NH2 (SEQ ID NO: 35)		16
JB10481	Ac-FQSKDNVVFVKGTYFERLRAKL-NH2 (SEQ ID NO: 36)		15
JB10482	Ac-FQSKDNVVFVGYFERLRAKL-NH2 (SEQ ID NO: 37)		23
JB10483	Ac-FQSKDNVFDGTYFERLRAKL-NH2 (SEQ ID NO: 38)		24
JB10484	Ac-FQSKNNVFDGTYFDRLRAKL-NH2 (SEQ ID NO: 396)	4.89	19
JB10485	Ac-FQSKNNVVFVGYFERLRAKL-NH2 (SEQ ID NO: 39)		21
JB10486	Ac-FQSKNNVVFVNGYFERLRAKL-NH2 (SEQ ID NO: 40)		19

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JB10487	Ac-F-QSKNNVFVHGYPEERLRAKL-NH2 (SEQ ID NO: 41)		19
JB10488	Ac-F-QSKNNVFVKGYFERLRAKL-NH2 (SEQ ID NO: 42)		18
JB10489	Ac-F-QSKNNVFVEGYFERLRAKL-NH2 (SEQ ID NO: 43)		21
JB10490	Ac-F-QSKQNVFVTGYFERLRAKL-NH2 (SEQ ID NO: 44)		9
JB10491	Ac-F-QSKQNVFVNGYFERLRAKL-NH2 (SEQ ID NO: 197)		10
JB10492	Ac-F-QSKQNVFVHGYPEERLRAKL-NH2 (SEQ ID NO: 198)		7
JB10493	Ac-F-QSKQNVFVKGYFERLRAKL-NH2 (SEQ ID NO: 199)		
JB10494	Ac-F-QSKQNVFVDGYFERLRAKL-NH2 (SEQ ID NO: 45)		15
JB10495	Ac-F-QSKQNVFVEGYFERLRAKL-NH2 (SEQ ID NO: 200)		15
JB10497	Ac-F-QSKQNVFVEGYFERLRAKL-NH2 (SEQ ID NO: 201)	1.13	15
JB10498	Ac-F-Q-NmeiSer-KGNVFVFGYPEERLRAKL-NH2 (SEQ ID NO: 675)		9
JB10499	Ac-F-QS-NmeiLys-GNVFVFGYPEERLRAKL-NH2 (SEQ ID NO: 202)		11
JB10500	Ac-F-QSK-NmeiGly-NVVFVFGYPEERLRAKL-NH2 (SEQ ID NO: 46)	1.11	45
JB10501	Ac-F-QSKGN-NmeiV-FVFGYPEERLRAKL-NH2 (SEQ ID NO: 417)		0
JB10502	Ac-F-QSKGNV-NmeiPhe-VFGYPEERLRAKL-NH2 (SEQ ID NO: 751)		1
JB10503	Ac-F-QSKGNVF-NmeiV-FGYFERLRAKL-NH2 (SEQ ID NO: 676)		0
JB10504	Ac-F-QSKGNVF-NmeiPhe-GYPEERLRAKL-NH2 (SEQ ID NO: 418)		5
JB10505	Ac-F-QSKGNVF-NmeiGly-YFERLRAKL-NH2 (SEQ ID NO: 269)		9
JB10506	Ac-F-QSKGNVFVEG-NmeiTyr-FERLRAKL-NH2 (SEQ ID NO: 714)		0
JB10507	Ac-F-QSKGNVFVEGY-NmeiPhe-ERLRAKL-NH2 (SEQ ID NO: 677)		0
JB10508	Ac-F-QSKGNVFVEGYF-NmeiGlu-RLRAKL-NH2 (SEQ ID NO: 678)		2
JB10509	Ac-F-QSKGNVFVEGYTE-Nmr-LRAKL-NH2 (SEQ ID NO: 752)		2
JB10510	Ac-F-QSKGNVFVEGYFER-NmeiLeu-RAKL-NH2 (SEQ ID NO: 753)		3
JB10511	Ac-F-QSKGNVFVEGYFERL-Nmr-AKL-NH2 (SEQ ID NO: 754)		7
JB10512	Ac-F-QSKGNVFVEGYFERL-R-NmeiAla-KL-NH2 (SEQ ID NO: 679)		1
JB10513	Ac-F-QSKGNVFVEGYFERL-RA-NmeiLys-L-NH2 (SEQ ID NO: 755)		3

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JB10514	Ac-FQSKGNVVFVGYTERLRAK-Nmet.eu-NH2 (SEQ ID NO: 419)		5
JB10515	Ac-bHomoPhe-QSKGNVVFVGYTERLRAKL-NH2 (SEQ ID NO: 420)	0	
JB10516	Ac-F-bHomoGln-SKGNVVFVGYTERLRAKL-NH2 (SEQ ID NO: 680)	0	
JB10517	Ac-FQ-bHomoSer-KGNVVFVGYTERLRAKL-NH2 (SEQ ID NO: 421)	0	
JB10518	Ac-FQS-bHomoLys-GNVVFVGYTERLRAKL-NH2 (SEQ ID NO: 422)	0	
JB10519	Ac-FQSK-bAla-NVFVGYTERLRAKL-NH2 (SEQ ID NO: 270)	0	
JB10520	Ac-FQSKG-bGln-VFVGYTERLRAKL-NH2 (SEQ ID NO: 271)	0	
JB10521	Ac-FQSKGN-bL.eu-FVGYTERLRAKL-NH2 (SEQ ID NO: 756)	0	
JB10522	Ac-FQSKGNV-bHomoPhe-VFVGYTERLRAKL-NH2 (SEQ ID NO: 681)	0	
JB10523	Ac-FQSKGNVF-bL.eu-FGYTERLRAKL-NH2 (SEQ ID NO: 757)	0	
JB10524	Ac-FQSKGNVF-bHomoPhe-GYTERLRAKL-NH2 (SEQ ID NO: 682)	0	
JB10525	Ac-FQSKGNVVF-bAla-YFERLRAKL-NH2 (SEQ ID NO: 758)	0	
JB10526	Ac-FQSKGNVVFVG-bHomoTyr-TERLRAKL-NH2 (SEQ ID NO: 759)	0	
JB10527	Ac-FQSKGNVVFVG-bHomoPhe-ERLRAKL-NH2 (SEQ ID NO: 683)	0	
JB10528	Ac-FQSKGNVVFVGYTE-bE-RLRAKL-NH2 (SEQ ID NO: 272)	8	
JB10529	Ac-FQSKGNVVFVGYTE-bHomoArg-LRAKL-NH2 (SEQ ID NO: 760)	0	
JB10530	Ac-FQSKGNVVFVGYTER-BL-RAKL-NH2 (SEQ ID NO: 684)	0	
JB10531	Ac-FQSKGNVVFVGYTERL-bHomoArg-AKL-NH2 (SEQ ID NO: 203)	0	
JB10532	Ac-FQSKGNVVFVGYTERL-R-bAla-KL-NH2 (SEQ ID NO: 423)	0	
JB10533	Ac-FQSKGNVVFVGYTERLRA-bHomok-L-NH2 (SEQ ID NO: 424)	0	
JB10534	Ac-FQSKGNVVFVGYTERLRAK-BL-NH2 (SEQ ID NO: 204)	8	
JB10535	Ac-FQSKGNVVFVGYTE-Cit-LRAKL-NH2 (SEQ ID NO: 685)	1	
JB10536	Ac-FQSKGNVVFVGYTERL-Cit-AKL-NH2 (SEQ ID NO: 273)	11	
JB10537	Ac-FQSKGNVVFVGYTE-NIe-LRAKL-NH2 (SEQ ID NO: 761)	7	
JB10538	Ac-FQSKGNVVFVGYTERL-NIe-AKL-NH2 (SEQ ID NO: 425)	15	
JB10564	Ac-FQSKKNVVFVGYTEKRLRAKL-NH2 (SEQ ID NO: 205)	0	

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JB10578	Ac-FQSKGNVFEVFGYFEERLRAKL-NH2 (SEQ ID NO: 441)		0
JB10613	Ac-FQSKGNVFEVFGYFEERLRAKL-OH (SEQ ID NO: 283)		6
JB10614	NH2-FQSKGNVFEVFGYFEERLRAKL-OH (SEQ ID NO: 720)		4
JB10615	NH2-FQSKGNVFEVFGYFEERLRAKL-NH2 (SEQ ID NO: 284)		6
JB10651	Ac-FQSKGNVHVKG YFEERLRAKL-NH2 (SEQ ID NO: 48)		6
JB10652	Ac-FQSKGNVHVVDGYFEERLRAKL-NH2 (SEQ ID NO: 49)		8
JB10653	Ac-FQSPGNVHVKG YFEERLRAKL-NH2 (SEQ ID NO: 50)		9
JB10654	Ac-FQSPGNVHVVDGYFEERLRAKL-NH2 (SEQ ID NO: 51)		11
JB10655	Ac-FQSKGNVFEVFGYFEERLRAKL-NH2 (SEQ ID NO: 52)		9
JB10656	Ac-FQSKGNLFEVFGYFEERLRAKL-NH2 (SEQ ID NO: 286)		5
JB10657	Ac-FQSKGNVFEVFGYFEERLRAKL-NH2 (SEQ ID NO: 287)		8
JB10658	Ac-FQSKGNVHLFGYFEERLRAKL-NH2 (SEQ ID NO: 694)		3
JB10663	Ac-FQSKANVFEVFGYFEERLRAKL-NH2 (SEQ ID NO: 53)		22
JB10668	Ac-FQSKANVFEVTGYFARLRAKL-NH2 (SEQ ID NO: 54)		16
JB10681	Ac-FQSK-Nmg-AVFEVGYFARLRAKL-NH2 (SEQ ID NO: 206)		25
JB10683	Ac-FQSK-Nmg-AVFEVDGYFARLRAKL-NH2 (SEQ ID NO: 55)		38
JB10708	Ac-FQSKANVFEVAGYFEERLRAKL-NH2 (SEQ ID NO: 59)		25
JB10714	Ac-FQSKaAVFEVDGYFARLRAKL-NH2 (SEQ ID NO: 60)		29
JB10717	Ac-FQSK-Nmg-NVFEVDGYFEERLRAKL-NH2 (SEQ ID NO: 61)		50
JB10720	Ac-FQSK-Nmg-NVFEVTGYFARLRAKL-NH2 (SEQ ID NO: 62)		30
JB10740	Ac-FQSKGNVFEVDGYFEERL-Alb-AKL-NH2 (SEQ ID NO: 66)		36
JB10754	Ac-FQSK-Nmg-AVFEVTGYFARLRAKL-NH2 (SEQ ID NO: 67)		27
JB10765	Ac-FQSKGNVFEVDGYFEERL-Ecw-AKL-NH2 (SEQ ID NO: 68)		37
JB10780	Ac-FQSK-Nmg-NVFEVGYFARLRAKL-NH2 (SEQ ID NO: 70)	1.92	35
JB10789	Ac-FQSK-Nmg-NVFEVDGYFEERL-NIc-AKL-NH2 (SEQ ID NO: 71)	0.79	51
JB10806	Ac-FQSK-Nmg-NVFEVAGYFARLRAKL-NH2 (SEQ ID NO: 74)	2.42	38

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JB10837	Ac-F-QSK-Nmg-NVFTGYFERL-NIc-AKL-NH2 (SEQ ID NO: 213)		33
JB10844	Ac-F-QSKdNVFVDGYFERLRAKL-NH2 (SEQ ID NO: 300)		23
JB10850	Ac-F-QSKdAVFVAGYFARLRAKL-NH2 (SEQ ID NO: 302)		24
JB10854	Ac-F-QSKdAVFVAGYFARL-NIc-AKL-NH2 (SEQ ID NO: 490)		14
JB10870	Ac-F-QSKdAVFVTGYFARLRAKL-NH2 (SEQ ID NO: 214)		20
JB10886	Ac-F-QSKdNVFVDGYFARLRAKL-NH2 (SEQ ID NO: 215)		21
JB10919	Ac-F-QSKdNVFTGYFERLRAKL-NH2 (SEQ ID NO: 79)		24
JB10931	Ac-F-QSKGNVFDGYFERL-Eag-AKL-NH2 (SEQ ID NO: 82)		24
JB10946	Ac-F-QSKGNVFDGYFERL-Dab-AKL-NH2 (SEQ ID NO: 85)		29
JB10950	Ac-F-QSKdNVFVGYFARLRAKL-NH2 (SEQ ID NO: 217)		14
JB10973	Ac-F-QSKGNVFDGYFERL-Cha-AKL-NH2 (SEQ ID NO: 92)	1.21	32
JB11006	Ac-F-QSKGNVFDGYFERL-HIc-AKL-NH2 (SEQ ID NO: 96)	1.35	35
JB11035	Ac-F-QSK-Nmg-AVFVAGYFARL-NIc-AKL-NH2 (SEQ ID NO: 218)		25
JB11037	Ac-F-QSKGNVFDGYFERL-NIc-AKL-NH2 (SEQ ID NO: 104)		30
JB11043	Ac-F-QSKdNVFVDGYFERL-NIc-AKL-NH2 (SEQ ID NO: 106)		27
JB11082	Ac-F-QSKdAVFVGYFARLRAKL-NH2 (SEQ ID NO: 565)		16
JB11084	Ac-F-QSK-Nmg-AVFVAGYFARLRAKL-NH2 (SEQ ID NO: 109)		28
JB11122	Ac-F-QSK-Nmg-NVFDGYFARL-NIc-AKL-NH2 (SEQ ID NO: 113)	0.81	43
JB11133	Ac-F-QSKdAVFVDGYFARLRAKL-NH2 (SEQ ID NO: 115)		31
JB11134	Ac-F-QSKdAVFVDGYFARLRAKL-NH2 (SEQ ID NO: 116)		28
JB11135	Ac-F-QSKdAVFDGYFARLRAKL-NH2 (SEQ ID NO: 221)		22
JB11136	Ac-F-QSKdAVFDGYFARLRAKL-NH2 (SEQ ID NO: 117)		36
JB11137	Ac-F-QSKdAVFVAGYFARLRAKL-NH2 (SEQ ID NO: 118)		23
JB11138	Ac-F-QSKdAVFVAGYFARLRAKL-NH2 (SEQ ID NO: 222)		19
JB11139	Ac-F-QSKdAVFVAGYFARLRAKL-NH2 (SEQ ID NO: 223)		16
JB11140	Ac-F-QSKdAVFVAGYFARLRAKL-NH2 (SEQ ID NO: 119)		29

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JB11141	Ac-FQSKGAVFVKGYFARLRAKL-NH2 (SEQ ID NO: 120)		13
JB11142	Ac-FQSKGAVFVKGYFARLRAKL-NH2 (SEQ ID NO: 224)		11
JB11143	Ac-FQSKDAVFVKGYFARLRAKL-NH2 (SEQ ID NO: 225)		6
JB11144	Ac-FQSKdAVFVKGYFARLRAKL-NH2 (SEQ ID NO: 121)		15
JB11145	Ac-FQSKGAVFVTGYFARLRAKL-NH2 (SEQ ID NO: 122)		13
JB11146	Ac-FQSKGAVFVTGYFARLRAKL-NH2 (SEQ ID NO: 226)		12
JB11147	Ac-FQSKDAVFVTGYFARLRAKL-NH2 (SEQ ID NO: 227)		14
JB11148	Ac-FQSKdAVFVTGYFARLRAKL-NH2 (SEQ ID NO: 123)		27
JB11149	Ac-FQSKGNVFVFGYFARLRAKL-NH2 (SEQ ID NO: 936)		0
JB11151	Ac-FQSKKNVFVFGYFARLRAKL-NH2 (SEQ ID NO: 937)		0
JB11152	Ac-FQSKKNVFVFGYFARLRAKL-NH2 (SEQ ID NO: 735)		0
JB11153	Ac-FQSKKNVFVFGYFARLRAKL-NH2 (SEQ ID NO: 705)		4
JB11155	Ac-FQSK-Nmg-NVFVTGYFARLRAKL-NH2 (SEQ ID NO: 125)		32
JB11156	Ac-FQSKdNVFVAGYFARLRAKL-NH2 (SEQ ID NO: 126)		22
JB11157	Ac-FQSKdNVFVAGYFARLRAKL-NH2 (SEQ ID NO: 127)		22
JB11162	Ac-FQSKpNVFVFGYFARLRAKL-NH2 (SEQ ID NO: 129)		51
JB11396	Ac-FQSK-Nmg-NVFVAGYFARLRAKL-NH2 (SEQ ID NO: 161)		34
JB11584	Ac-FQSK-Nmg-NVFVDCYFARLRAKL-NH2 (SEQ ID NO: 164)		57
JB11585	Ac-FQSK-Nmg-NVFVTGYFARLRAKL-NH2 (SEQ ID NO: 165)		48
JB11590	Ac-FQSKGNVFVTCGYFARLRAKL-NH2 (SEQ ID NO: 401)		22
JB11591	Ac-FQSKGNVFVDGYFARLRAKL-NH2 (SEQ ID NO: 168)		23
JB11592	Ac-ICFQSKGNVFVDGYFARLRAKL-NH2 (SEQ ID NO: 402)		11
JB11593	Ac-FQSKICNVFVDGYFARLRAKL-NH2 (SEQ ID NO: 670)		13
JB11594	Ac-FQSKGNVFVTCGYFARLRAKL-NH2 (SEQ ID NO: 671)		5
JB11595	Ac-ICFQSKGNVFVTCGYFARLRAKL-NH2 (SEQ ID NO: 403)		12
JB11596	Ac-ICFQSKGCVFVFGYFARLRAKL-NH2 (SEQ ID NO: 404)		13

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JBT1843	Ac-FQSKGNHVDGYFEERLHAKL-NH2 (SEQ ID NO: 169)		7
JBT1844	Ac-FQSKNNVVDGYFEKRLRAKL-NH2 (SEQ ID NO: 170)		6
JBT1845	Ac-FQSYKHVVDGYFEERLRAKL-NH2 (SEQ ID NO: 249)		6
JBT1846	Ac-FQSKGIVVDGYFEKRLRAKL-NH2 (SEQ ID NO: 250)		7
JBT1847	Ac-YQTKGNVVDGYFEERLRAKL-NH2 (SEQ ID NO: 171)		16
JBT1853	PEG(40KD)-FQSKGNVVDGYFEERL-Aib-AKL-NH2 (SEQ ID NO: 175)		56
JBT1855	Ac-FQSKGNVVDGYFEERL-Aib-AKL(CPEG40KD)-NH2 (SEQ ID NO: 252)		59

도면26a

JB10120 플래스		외인성 태나제 억제 분석	
펠티드	차열	EC50 (μM)	2.5μM에서 % 억제
JB10120	Ac-SGASRYKWFICGMRDMKGTMSC VWVKFRYDTS-NH2 (SEQ ID NO: 1047)	0.88	45
JB10124	비오린-Tlds-SGASRYKWFICGMRDMKGTMSC VWVKFRYDTS-NH2 (SEQ ID NO: 1290)	1.26	36
JB10247	Ac-SGASRYKWFICGMRDMKGTMSC VWVKFRYDTS-NH2 (SEQ ID NO: 1213)	0.61	42
JB10248	Ac-KKSGASRYKWFICGMRDMKGTMSC VWVKFRYDTSRK-NH2 (SEQ ID NO: 1001)	0.27	52
JB10249	Ac-KKSGASRYKWFICGMRDMKGTMSKK-NH2 (SEQ ID NO: 1214)	1.06	16
JB10250	Ac-KKSRYKWFICGMRDMKGTMSC VWKK-NH2 (SEQ ID NO: 1201)	0.61	19
JB10251	Ac-KKKWFICGMRDMKGTMSC VWVKFKK-NH2 (SEQ ID NO: 1202)	0.63	23
JB10252	Ac-KKICGMRDMKGTMSC VWVKFRYDK-NH2 (SEQ ID NO: 1215)	1.02	18
JB10253	Ac-KKMRDMKGTMSC VWVKFRYDTSRK-NH2 (SEQ ID NO: 1216)	0.55	23
JB10319	Ac-SGASRYKWFICGMRDMKGTMSC VWVKFRY-NH2 (SEQ ID NO: 1002)		60
JB10320	Ac-SGASRYKWFICGMRDMKGTMSC VWVK-NH2 (SEQ ID NO: 1103)	6.40	7
JB10321	Ac-SGASRYKWFICGMRDMKGTMC V-NH2 (SEQ ID NO: 1217)		1
JB10322	Ac-SGASRYKWFICGMRDMKGTMC-NH2 (SEQ ID NO: 1218)		3
JB10323	Ac-SRYKWFICGMRDMKGTMSC VWVKFRYDTS-NH2 (SEQ ID NO: 1076)	0.77	48
JB10324	Ac-KWFICGMRDMKGTMSC VWVKFRYDTS-NH2 (SEQ ID NO: 1155)	2.44	18
JB10325	Ac-ICGMRDMKGTMSC VWVKFRYDTS-NH2 (SEQ ID NO: 1219)		4
JB10326	Ac-RDMKGTMSC VWVKFRYDTS-NH2 (SEQ ID NO: 1220)		3
JB10327	Ac-SGASRYKWFICGMRDMKGTMS-NH2 (SEQ ID NO: 1222)		0
JB10328	Ac-SRYKWFICGMRDMKGTMSC VW-NH2 (SEQ ID NO: 1223)		1
JB10329	Ac-KWFICGMRDMKGTMSC VWKF-NH2 (SEQ ID NO: 1156)		8
JB10330	Ac-ICGMRDMKGTMSC VWVKFRYD-NH2 (SEQ ID NO: 1224)		7

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JB-T0331	Ac-MRDMKGTMSCVWVKERYDTS-NH2 (SEQ ID NO: 1225)		5
JB-T0332	Ac-SRYKWEICGMRDMDKGTMSCVW-NH2 (SEQ ID NO: 1206)		5
JB-T0333	Ac-KWFICGMRDMDKGTMSCVWVKF-NH2 (SEQ ID NO: 1207)		11
JB-T0334	Ac-CGMRDMDKGTMSCVWVKERYD-NH2 (SEQ ID NO: 1227)		3
JB-T0409	Ac-SGASRYKWFSGMRDMKGTMSVWVKERYDTS-NH2 (SEQ ID NO: 1204)		5
JB-T0410	Ac-SGASRYKWFSG-Nie-RD-Nie-KGT-Nie-SSVWVKERYDTS-NH2 (SEQ ID NO: 1208)		7
JB-T0411	Ac-SGASRYKWFICG-Nie-RD-Nie-KGT-Nie-SCVWVKERYDTS-NH2 (SEQ ID NO: 1104)		24
JB-T0412	Ac-KWFICG-Nie-RD-Nie-KGT-Nie-SCVWVKF-NH2 (SEQ ID NO: 1209)		12
JB-T0413	Ac-KWFSGMRDMDKGTMSVWVKF-NH2 (SEQ ID NO: 1228)		2
JB-T0414	Ac-KWFSG-Nie-RD-Nie-KGT-Nie-SSVWVKF-NH2 (SEQ ID NO: 1205)		8
JB-T0415	Ac-SRYKWEICGMRDMDKGTMSCVWVKF-NH2 (SEQ ID NO: 1003)	0.19	52
JB-T0416	Ac-SRYKWEICG-Nie-RD-Nie-KGT-Nie-SCVWVKF-NH2 (SEQ ID NO: 1077)		46
JB-T0417	Ac-SRYKWEISGMRDMDKGTMSVWVKF-NH2 (SEQ ID NO: 1229)		11
JB-T0418	Ac-SRYKWFSG-Nie-RD-Nie-KGT-Nie-SSVWVKF-NH2 (SEQ ID NO: 1210)		11
JB-T0419	Ac-SGGRKHKHFLRSNGKPSRALSSMHWRWSTS-NH2 (SEQ ID NO: 1293)		7
JB-T0435*	Ac-RRRDVSGKMCWSGFSKWERCJADMTYYSVT-NH2 (SEQ ID NO: 1211)		5
JB-T0436*	Ac-RWSGKSTYS(CDAMYRRMGKC)FSICWTIDVYK-NH2 (SEQ ID NO: 1212)		0
JB-T0437	Ac-ARYKWFICGMRDMDKGTMSCVWVKF-NH2 (SEQ ID NO: 1048)		52
JB-T0438	Ac-SAYKWFICGMRDMDKGTMSCVWVKF-NH2 (SEQ ID NO: 1078)		46
JB-T0439	Ac-SRAKWFICGMRDMDKGTMSCVWVKF-NH2 (SEQ ID NO: 1105)		38
JB-T0440	Ac-SRYAWFICGMRDMDKGTMSCVWVKF-NH2 (SEQ ID NO: 1106)		34
JB-T0441	Ac-SRYKAFICGMRDMDKGTMSCVWVKF-NH2 (SEQ ID NO: 1230)		1
JB-T0442	Ac-SRYKWAICGMRDMDKGTMSCVWVKF-NH2 (SEQ ID NO: 1231)		17
JB-T0443	Ac-SRYKWEAGMRDMKGTMSCVWVKF-NH2 (SEQ ID NO: 1157)		7
JB-T0444	Ac-SRYKWFICGMRDMDKGTMSCVWVKF-NH2 (SEQ ID NO: 1004)		63
JB-T0445	Ac-SRYKWFICGARDMDKGTMSCVWVKF-NH2 (SEQ ID NO: 1107)		12
JB-T0446	Ac-SRYKWFICGMADMDKGTMSCVWVKF-NH2 (SEQ ID NO: 1079)		46
JB-T0447	Ac-SRYKWFICGRAMKGTMSCVWVKF-NH2 (SEQ ID NO: 1158)		15
JB-T0448	Ac-SRYKWFICGMRDADKGTMSCVWVKF-NH2 (SEQ ID NO: 1108)		33

도면26c

JB10449	Ac-SRYKwF(CGMRDMAGTMSG)VWVKF-NH2 (SEQ ID NO: 1080)		55
JB10450	Ac-SRYKwF(CGMRDMKATMSC)VWVKF-NH2 (SEQ ID NO: 1159)		34
JB10451	Ac-SRYKwF(CGMRDMKGAMSC)VWVKF-NH2 (SEQ ID NO: 1081)		46
JB10452	Ac-SRYKwF(CGMRDMKGTASG)VWVKF-NH2 (SEQ ID NO: 1109)		31
JB10453	Ac-SRYKwF(CGMRDMKGTMAC)VWVKF-NH2 (SEQ ID NO: 1110)	0.97	40
JB10454	Ac-SRYKwF(CGMRDMKGTMSA)VWVKF-NH2 (SEQ ID NO: 1160)	0	0
JB10455	Ac-SRYKwF(CGMRDMKGTMSC)AWVKF-NH2 (SEQ ID NO: 1049)	0.95	30
JB10456	Ac-SRYKwF(CGMRDMKGTMSC)AVAKE-NH2 (SEQ ID NO: 1232)		0
JB10457	Ac-SRYKwF(CGMRDMKGTMSC)VWAKE-NH2 (SEQ ID NO: 1161)		17
JB10458	Ac-SRYKwF(CGMRDMKGTMSC)VWVAE-NH2 (SEQ ID NO: 1082)		52
JB10459	Ac-SRYKwF(CGMRDMKGTMSC)VWKA-NH2 (SEQ ID NO: 1083)		38
JB10460	Ac-RYKwF(CGMRDMKGTMSC)VWVKF-NH2 (SEQ ID NO: 1050)		51
JB10461	Ac-YKwF(CGMRDMKGTMSC)VWVKF-NH2 (SEQ ID NO: 1111)		40
JB10462	Ac-SRYKwF(CGMRDMKGTMSC)VWVKF-NH2 (SEQ ID NO: 1233)		0
JB10463	Ac-SRYKwF(CGMRD(CMKGTMSC)VWVKF-NH2 (SEQ ID NO: 1234)		11
JB10464	Ac-SRYKwF(CGMRDMKGTMS)VWVKF-NH2 (SEQ ID NO: 1235)		10
JB10465	Ac-SRYKwF(CGMRDMKGT(C)MSVWVKF-NH2 (SEQ ID NO: 1236)		7
JB10466	Ac-SRYKwF(CGMRDMKGT(C)MSVWVKF-NH2 (SEQ ID NO: 1237)		11
JB10467	Ac-SRYKwF(CGMRD(C)MKGTMS)VWVKF-NH2 (SEQ ID NO: 1238)		11
JB10468	Ac-SRYKwF(CGMRDMKGT(C)SVWVKF-NH2 (SEQ ID NO: 1239)		7
JB10469	Ac-SRYKwF(CGMRD(C)MSVWVKF-NH2 (SEQ ID NO: 1240)		11
JB10470	Ac-SRYKwF(CGMRD(C)TMSVWVKF-NH2 (SEQ ID NO: 1162)		2
JB10617	Ac-SRYKwF(homoc-GMRDMKGTMS)VWVKF-NH2 (SEQ ID NO: 1112)		21
JB10618	Ac-SRYKwF(CGMRDMKGTMS-homoc)VWVKF-NH2 (SEQ ID NO: 1163)		11
JB10619	Ac-SRYKwF(homoc-GMRDMKGTMS-homoc)VWVKF-NH2 (SEQ ID NO: 1241)		1
JB10620	Ac-SRYKwF(Dap-GMRDMKGTMS-D)VWVKF-NH2 (SEQ ID NO: 1242)		0
JB10625	Ac-SRYKwF(CGMRDMKGTMS)VWVKF-NH2 (SEQ ID NO: 1244)		0
JB10626	Ac-SRYKwF(CGMRD(KGTMSC)VWVKF-NH2 (SEQ ID NO: 1164)		7
JB10627	Ac-SRYKwF(CGMRDMGTMS)VWVKF-NH2 (SEQ ID NO: 1165)		3

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JB10628	Ac-SRYKwFICGMRDMKGMSC VwVKF-NH2 (SEQ ID NO: 1166)		0
JB10629	Ac-SRYKwFICGMRDMKGMTMSC VwVKF-NH2 (SEQ ID NO: 1167)		3
JB10631	Ac-SRYKwFICGMRDMKGMTMSC VwVKF-NH2 (SEQ ID NO: 1113)		18
JB10632	Ac-SRYKwFICGMRDMKGMTMSC VwVKF-NH2 (SEQ ID NO: 1245)		0
JB10633	Ac-SRYKwFICGMRDMKGMTMSC VwVKF-NH2 (SEQ ID NO: 1168)		2
JB10634	Ac-SRYKwFICGMRDMKGMTMSC VwVKF-NH2 (SEQ ID NO: 1051)	0.47	44
JB10635	Ac-SRYKwFICGMRDMKGMTMSC VwVKF-NH2 (SEQ ID NO: 1114)		10
JB10637	Ac-SRYKwFICGMRDMKGMTMSC VwVKF-NH2 (SEQ ID NO: 1169)		0
JB10638	Ac-SRYKwFICGMRDMKGMTMSC VwVKF-NH2 (SEQ ID NO: 1246)		0
JB10639	Ac-SRYKwFICGMRDMKGMTMSC VwVKF-NH2 (SEQ ID NO: 1170)		3
JB10640	Ac-SRYKwFICGMRDMKGMTMSC VwVKF-NH2 (SEQ ID NO: 1171)		1
JB10641	Ac-SRYKwFICGMRDMKGMTMSC VwVKF-NH2 (SEQ ID NO: 1247)		0
JB10642	Ac-SRYKwFICGMRDMKGMTMSC VwVKF-NH2 (SEQ ID NO: 1248)		0
JB10643	Ac-SRYKwFICGMRDMKGMTMSC VwVKF-NH2 (SEQ ID NO: 1006)		31
JB10644	Ac-SRYKwFICGMRDMKGMTMSC VwVKF-NH2 (SEQ ID NO: 1172)		17
JB10645	Ac-SRYKwFICGMRDMKGMTMSC VwVKF-NH2 (SEQ ID NO: 1084)		23
JB10646	Ac-SRYKwFICGMRDMKGMTMSC VwVKF-NH2 (SEQ ID NO: 1173)		2
JB10647	Ac-SRYKwFICGMRDMKGMTMSC VwVKF-NH2 (SEQ ID NO: 1249)		0
JB10648	Ac-SRYKwFICGMRDMKGMTMSC VwVKF-NH2 (SEQ ID NO: 1174)		3
JB10649	Ac-SRYKwFICGMRDMKGMTMSC VwVKF-NH2 (SEQ ID NO: 1175)		2
JB10650	Ac-SRYKwFICGMRDMKGMTMSC VwVKF-NH2 (SEQ ID NO: 1250)		0
JB10787	Ac-SRYKwFICG,SeMeI-RD,SeMeI-KGT,SeMeI-SC VwVKF-NH2 (SEQ ID NO: 1292)		55
JB11416	Ac-DRYKwFICGMRDMKGMTMSC VwVKF-NH2 (SEQ ID NO: 1007)		47
JB11426	Ac-SRYKwFICGMRDMKGMTMSC VwVKF-NH2 (SEQ ID NO: 1008)		40
JB11437	Ac-SRYKwFICGMRDMKGMTMSC VwVKF-NH2 (SEQ ID NO: 1053)		51
JB11438	Ac-SRYKwFICGMRDMKGMTMSC VwVKF-NH2 (SEQ ID NO: 1010)		53
JB11445	Ac-SRYKwFICGMRDMKGMTMSC VwVKF-NH2 (SEQ ID NO: 1011)		49
JB11446	Ac-SRYKwFICGMRDMKGMTMSC VwVKF-NH2 (SEQ ID NO: 1012)		39
JB11446	Ac-SRYKwFICGMRDMKGMTMSC VwVKF-NH2 (SEQ ID NO: 1054)		46

도면26e

JBT1448	Ac-SRYKWF(CGMRDMKGTMSC)VWVKF-NH2 (SEQ ID NO: 1123)		47
JBT1449	Ac-SRYKWF(CGMRDMKGTMSC)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(CGMRDMKGTMSC)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-SI_YKW(CGMRDMKGTMSC)VWVKF-NH2 (SEQ ID NO: 1060)		43
JBT1502	Ac-SRYKWF(CGMRDLKGTMSC)VWVKF-NH2 (SEQ ID NO: 1019)		46
JBT1506	Ac-SRYKWF(CGMRDMKGTITLSC)VWVKF-NH2 (SEQ ID NO: 1064)		45
JBT1512	Ac-SRYKWF(CGMRDMKGTMSC)VWVKF-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(CGMRDKGTMSC)VWVKF-NH2 (SEQ ID NO: 1025)		41

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JB10122 클래스		위인성 테나제 억제 분석	
펠터드	차열	EC50 (μM)	2.5μM에서 % 억제
JB10122	Ac-SGYASFP.LAVQ.LHVSRSKEMAL.ARL.YYKTS-NH2 (SEQ ID NO: 2002)	6.70	7
JB10126	비오린-Tds-SGYASFP.LAVQ.LHVSRSKEMAL.ARL.YYKTS-NH2 (SEQ ID NO: 2498)	5.05	5
JB10221	Ac-KKSGYASFP.LAVQ.LHVSRSKEMAL.ARL.YYKTSK-NH2 (SEQ ID NO: 2003)	3.37	19
JB10222	Ac-MKSRSLGLAYFAKHISLLEVLQTRKVAAPY-NH2 (SEQ ID NO: 2127)		4
JB10223	Ac-KMOLRVYASTAHSRYLIGSSLFPKYAEVKA-NH2 (SEQ ID NO: 2297)		4
JB10224	Ac-KKSGYASFP.LAVQ.LHVSRSKEMAL.ARL.YYKK-NH2 (SEQ ID NO: 2298)	3.49	18
JB10225	Ac-KKSGYASFP.LAVQ.LHVSRSKEMAL.ARKK-NH2 (SEQ ID NO: 2128)		0
JB10226	Ac-KKSGYASFP.LAVQ.LHVSRSKEMAKK-NH2 (SEQ ID NO: 2299)		0
JB10227	Ac-KKSGYASFP.LAVQ.LHVSRSKEMAL.ARL.YYKTSK-NH2 (SEQ ID NO: 2300)		5
JB10228	Ac-KKASFP.LAVQ.LHVSRSKEMAL.ARL.YYKTSK-NH2 (SEQ ID NO: 2016)	6.93	9
JB10229	Ac-KKPLAVQ.LHVSRSKEMAL.ARL.YYKTSK-NH2 (SEQ ID NO: 2129)		0
JB10230	Ac-KKYQ.LHVSRSKEMAL.ARL.YYKTSK-NH2 (SEQ ID NO: 2301)		0
JB10231	Ac-KKHVSRSKEMAL.ARL.YYKTSK-NH2 (SEQ ID NO: 2302)		0
JB10232	Ac-KKGYASFP.LAVQ.LHVSRSKEMK-NH2 (SEQ ID NO: 2303)		2
JB10233	Ac-KKYASFP.LAVQ.LHVSRSKEMAKK-NH2 (SEQ ID NO: 2304)		6
JB10234	Ac-KKYQ.LHVSRSKEMAL.ARL.YYKK-NH2 (SEQ ID NO: 2305)		3
JB10235	Ac-KKQ.LHVSRSKEMAL.ARL.YYKTK-NH2 (SEQ ID NO: 2306)		0
JB10236	Ac-KKLHVSRSKEMAL.ARL.YYKTSK-NH2 (SEQ ID NO: 2307)		0
JB10237	Ac-KKSGYASFP.LAVQ.LHVSRSKEMK-NH2 (SEQ ID NO: 2308)		2
JB10359	Ac-ASFP.LAVQ.LHVSRSKEMA-NH2 (SEQ ID NO: 2309)		6
JB10360	Ac-SFP.LAVQ.LHVSRSKEMA-NH2 (SEQ ID NO: 2310)		2

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JB10361	Ac-FPLAVQJLHVSRSKEMA-NH2 (SEQ ID NO: 2311)		9
JB10362	Ac-ASPLAVQJLHVSRSKEM-NH2 (SEQ ID NO: 2312)		6
JB10363	Ac-ASPLAVQJLHVSRSKE-NH2 (SEQ ID NO: 2313)		9
JB10364	Ac-ASPLAVQJLHVSRSKEMAL-NH2 (SEQ ID NO: 2314)		12
JB10365	Ac-ASPLAVQJLHVSRSKEMALA-NH2 (SEQ ID NO: 2315)		9
JB10366	Ac-ASPLAVQJLHVSRSKEMALAR-NH2 (SEQ ID NO: 2316)		11
JB10367	Ac-ASPLAVQJLHVSRSKEMALARTY-NH2 (SEQ ID NO: 2317)		10
JB10368	Ac-ASPLAVQJLHVSRSKEMALARTY-NH2 (SEQ ID NO: 2130)		8
JB10369	Ac-ASPLAVQJLHVSRSKEMALARTY-NH2 (SEQ ID NO: 2017)		9
JB10370	Ac-YASPLAVQJLHVSRSKEMA-NH2 (SEQ ID NO: 2318)		0
JB10371	Ac-GYASPLAVQJLHVSRSKEMA-NH2 (SEQ ID NO: 2319)		5
JB10660	Ac-AGYASPLAVQJLHVSRSKEMALARTYKTS-NH2 (SEQ ID NO: 2004)		0
JB10661	Ac-SAYASPLAVQJLHVSRSKEMALARTYKTS-NH2 (SEQ ID NO: 2005)		3
JB10662	Ac-SGASPLAVQJLHVSRSKEMALARTYKTS-NH2 (SEQ ID NO: 2131)		0
JB10664	Ac-SGYAASPLAVQJLHVSRSKEMALARTYKTS-NH2 (SEQ ID NO: 2006)		3
JB10665	Ac-SGYASPLAVQJLHVSRSKEMALARTYKTS-NH2 (SEQ ID NO: 2132)		0
JB10666	Ac-SGYASFALAVQJLHVSRSKEMALARTYKTS-NH2 (SEQ ID NO: 2001)		5
JB10667	Ac-SGYASFPAAVQJLHVSRSKEMALARTYKTS-NH2 (SEQ ID NO: 2018)		0
JB10669	Ac-SGYASPLAAVQJLHVSRSKEMALARTYKTS-NH2 (SEQ ID NO: 2133)		0
JB10670	Ac-SGYASPLAAVQJLHVSRSKEMALARTYKTS-NH2 (SEQ ID NO: 2007)		2
JB10671	Ac-SGYASPLAAVQJLHVSRSKEMALARTYKTS-NH2 (SEQ ID NO: 2019)		7
JB10672	Ac-SGYASPLAAVQJLHVSRSKEMALARTYKTS-NH2 (SEQ ID NO: 2134)		3
JB10673	Ac-SGYASPLAAVQJLHVSRSKEMALARTYKTS-NH2 (SEQ ID NO: 2135)		5
JB10674	Ac-SGYASPLAAVQJLHVSRSKEMALARTYKTS-NH2 (SEQ ID NO: 2008)		5
JB10675	Ac-SGYASPLAAVQJLHVSARSKEMALARTYKTS-NH2 (SEQ ID NO: 2136)		7
JB10676	Ac-SGYASPLAAVQJLHVSASKEMALARTYKTS-NH2 (SEQ ID NO: 2137)		1
JB10677	Ac-SGYASPLAAVQJLHVSRAKEMALARTYKTS-NH2 (SEQ ID NO: 2009)		2
JB10678	Ac-SGYASPLAAVQJLHVSRSKEMALARTYKTS-NH2 (SEQ ID NO: 2010)		2
JB10679	Ac-SGYASPLAAVQJLHVSRSKAMALARTYKTS-NH2 (SEQ ID NO: 2020)		3

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JB10680	Ac-SGYASFPLAVQLVHVKRSKEMALARLYYKTS-NH2 (SEQ ID NO: 2138)	3
JB10682	Ac-SGYASFPLAVQLVHVKRSKEMAARLYYKTS-NH2 (SEQ ID NO: 2139)	0
JB10684	Ac-SGYASFPLAVQLVHVKRSKEMALARLYYKTS-NH2 (SEQ ID NO: 2011)	2
JB10685	Ac-SGYASFPLAVQLVHVKRSKEMALARAYYKTS-NH2 (SEQ ID NO: 2021)	1
JB10686	Ac-SGYASFPLAVQLVHVKRSKEMALARAYKTS-NH2 (SEQ ID NO: 2140)	1
JB10687	Ac-SGYASFPLAVQLVHVKRSKEMALARYAKTS-NH2 (SEQ ID NO: 2141)	0
JB10688	Ac-SGYASFPLAVQLVHVKRSKEMALARYYATS-NH2 (SEQ ID NO: 2012)	2
JB10689	Ac-SGYASFPLAVQLVHVKRSKEMALARYYKAS-NH2 (SEQ ID NO: 2013)	2
JB10690	Ac-SGYASFPLAVQLVHVKRSKEMALARYYKTA-NH2 (SEQ ID NO: 2014)	3
JB11579	Ac-GYASFPLAVQLVHVKRSKEMA-NH2 (SEQ ID NO: 2015)	5
JB11580	Ac-GYASFPLSVQLVHVKRSKEMA-NH2 (SEQ ID NO: 2320)	6
JB11581	Ac-GYASFPLAVQLVHVKRSKEMA-NH2 (SEQ ID NO: 2321)	13
JB11582	Ac-GYASFPLAVQLVHVMKRSKEMA-NH2 (SEQ ID NO: 2022)	7
JB11583	Ac-GYASFPLAVQLVHVMKRSKEMA-NH2 (SEQ ID NO: 2322)	12
JB11602	Ac-LAVQLVHVKRSKEMALARLYYKTS-NH2 (SEQ ID NO: 2326)	0

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JB10047 클래스		트롬빈 생성 분석				
펩티드	서열	10 μ M 펩티드에서 FVIII- 억제된 혈장에서 FEIBA- 등가 활성 [mU/ml]	1.1 μ M 펩티드에서 FVIII- 억제된 혈장에서 FEIBA- 등가 활성 [mU/ml]	EC ₅₀ (μ M), FVIII- 억제된 혈장	10 μ M 펩티드에서 FVIII 결여 혈장에서 % FVIII- 등가 활성	1.1 μ M 펩티드에서 FVIII 결여 혈장에서 % FVIII- 등가 활성
JB10047	Ac-SGVGRLLQVAFQSKKNVFVFGYFEERLRAKLTIS-NH2 (SEQ ID NO: 253)	156	87	0.89	24.6	20.0
JB10131	비오린-Tids-AFQSKKNVFVFGYFEERLRAK-NH2 (SEQ ID NO: 964)	106			4.5	
JB10132	비오린-Tids-FQSKKNVFVFGYFEERLRAKLT-NH2 (SEQ ID NO: 965)	123			5.3	
JB10133	비오린-Tids-QSKKNVFVFGYFEERLRAKLT-NH2 (SEQ ID NO: 966)	28			6.7	
JB10134	비오린-Tids-QSKKNVFVFGYFEERLRAK-NH2 (SEQ ID NO: 967)	11				
JB10155	Ac-KKSGVGRLLQVAFQSKKNVFVFGYFEERLRAKLTSSK-NH2 (SEQ ID NO: 8)	49				
JB10158	Ac-KKSGVGRLLQVAFQSKKNVFVFGYFEERLRAKKK-NH2 (SEQ ID NO: 9)	30				
JB10162	Ac-KKGRLLQVAFQSKKNVFVFGYFEERLRAKLTSSK-NH2 (SEQ ID NO: 10)	54				
JB10163	Ac-KKQVAFQSKKNVFVFGYFEERLRAKLTSSK-NH2 (SEQ ID NO: 11)	69				
JB10164	Ac-KKFQSKKNVFVFGYFEERLRAKLTSSK-NH2 (SEQ ID NO: 12)	39				
JB10169	Ac-KKAFQSKKNVFVFGYFEERLRAKKK-NH2 (SEQ ID NO: 254)	21				

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JB10170	Ac-KKQSKKNVVFQGYEURLRAKLKK-NH2 (SEQ ID NO: 13)	68				
JB10171	Ac-KKQSKKNVVFQGYEURLRAKLTKK-NH2 (SEQ ID NO: 255)	33				
JB10174	Ac-KKAFQSKKNVVFQGYEURLRAKLKK-NH2 (SEQ ID NO: 14)	49				
JB10175	Ac-KKAFQSKKNVVFQGYEURLRAKLTKK-NH2 (SEQ ID NO: 182)	49				
JB10293	Ac-FQSKKNVVFQGYEURLRAKL-NH2 (SEQ ID NO: 256)	106	34	1.60	7.1	
JB10294	Ac-YQSKKNVVFQGYEURLRAKL-NH2 (SEQ ID NO: 257)	122			8.2	
JB10296	Ac-FQSKKNVVFQGYEURLRAKL-NH2 (SEQ ID NO: 407)	79				
JB10297	Ac-FQSKNNVVFQGYEURLRAKL-NH2 (SEQ ID NO: 183)	147			11.3	
JB10298	Ac-FQSKQNVVFQGYEURLRAKL-NH2 (SEQ ID NO: 747)	109				
JB10299	Ac-FQSKKNVVFQGYEURLRAKL-NH2 (SEQ ID NO: 408)	63				
JB10300	Ac-FQSKKNVVFQGYEURLRAKL-NH2 (SEQ ID NO: 409)	40				
JB10301	Ac-FQSKKNVVFQGYEURLRAKL-NH2 (SEQ ID NO: 410)	49				
JB10302	Ac-FQSKKNVVFQGYEURLRAKL-NH2 (SEQ ID NO: 258)	220			18.5	
JB10303	Ac-FQSKKNVFDGYEURLRAKL-NH2 (SEQ ID NO: 184)	220	126	0.85	21.8	
JB10304	Ac-FQSKKNVFLGYEURLRAKL-NH2 (SEQ ID NO: 259)	138				
JB10305	Ac-FQSKKNVVFQGYEURLRAKL-NH2 (SEQ ID NO: 260)	207	113		20.5	
JB10306	Ac-FQSKKNVVFQGYEURLRAKL-NH2 (SEQ ID NO: 185)	247	113		17.4	
JB10307	Ac-FQSKKNVVFQGYEURLRAKL-NH2 (SEQ ID NO: 261)	182	81		16.8	
JB10308	Ac-FQSKKNVVFQGYEURLRAKL-NH2 (SEQ ID NO: 411)	133				
JB10309	Ac-FQSKKNVVFQGYEURLRAKL-NH2 (SEQ ID NO: 412)	123				
JB10310	Ac-FQSKKNVVFQGYEURLRAKL-NH2 (SEQ ID NO: 262)	163	50			
JB10311	Ac-FQSKKNVVFQGYEURLRAKN-NH2 (SEQ ID NO: 748)	27				
JB10335	Ac-FQSKKNVVFQGYEURLRAK-NH2 (SEQ ID NO: 749)	28				
JB10336	Ac-FQSKNNVVFAGYEDURLRAKL-OH (SEQ ID NO: 263)	186	62			
JB10337	Ac-FQSKNNVVFQGYEDURLRAKL-NH2 (SEQ ID NO: 16)	219	144			
JB10338	Ac-FQSKNNVVFQGYEDURLRAKL-NH2 (SEQ ID NO: 17)	197	133			
JB10339	Ac-FQSKNNVVFQGYEDURLRAKL-NH2 (SEQ ID NO: 18)	230	136			
JB10340	Ac-FQSKNNVVFQGYEDURLRAKL-NH2 (SEQ ID NO: 186)	197	122			
JB10341	Ac-FQSKNNVVFQGYEDURLRAKL-NH2 (SEQ ID NO: 187)	193	100			

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JB10342	Ac-FQSKNNVFVDGYFERLRAKL-NH2 (SEQ ID NO: 19)	244	178		29.7	28.1
JB10343	Ac-FQSKKNVFVDGYFERLRAKL-NH2 (SEQ ID NO: 188)	239	126			
JB10374	Ac-FQSKDNVVFEGYFERLRAKL-NH2 (SEQ ID NO: 20)	216	128			
JB10375	Ac-FQSKGNVVFEGYFERLRAKL-NH2 (SEQ ID NO: 190)	180	140	0.47	22.9	22.9
JB10376	Ac-FQSKKNVVFEGYFERLRAKL-NH2 (SEQ ID NO: 414)	101	22			
JB10377	Ac-FQSKKNQVFEGYFERLRAKL-NH2 (SEQ ID NO: 264)	180	75			
JB10378	Ac-FQSKKNVFVTGYFERLRAKL-NH2 (SEQ ID NO: 21)	245	148		30.7	21.2
JB10379	Ac-FQSKKNVFVTGYFERLRAKL-NH2 (SEQ ID NO: 22)	226	123			
JB10380	Ac-FQSKKNVFVVGYFERLRAKL-NH2 (SEQ ID NO: 191)	199	102			
JB10381	Ac-FQSPKNVVFEGYFERLRAKL-NH2 (SEQ ID NO: 265)	173	76			
JB10386	Ac-FQSKKNPVFEGYFERLRAKL-NH2 (SEQ ID NO: 415)	85				
JB10388	Ac-FQSKKNVHFEGYFERLRAKL-NH2 (SEQ ID NO: 192)	185	82			
JB10389	Ac-FQSKKNVVFEGYFERLRAKL-NH2 (SEQ ID NO: 673)	34				
JB10390	Ac-FQSKKNVFQEGYFERLRAKL-NH2 (SEQ ID NO: 674)	28				
JB10391	Ac-FQSKKNVVFEGYFERLRAKL-NH2 (SEQ ID NO: 266)	178	62			
JB10392	Ac-FQSKKNVVFHGYFERLRAKL-NH2 (SEQ ID NO: 23)	228	112			
JB10393	Ac-FQSKKNVVFKGTYFERLRAKL-NH2 (SEQ ID NO: 193)	268	161		38.8	30.1
JB10394	Ac-FQSKKNVFMGYFERLRAKL-NH2 (SEQ ID NO: 24)	115	43			
JB10395	Ac-FQSKKNVFMGYFERLRAKL-NH2 (SEQ ID NO: 25)	235	107			
JB10396	Ac-FQSKKNVFPGYFERLRAKL-NH2 (SEQ ID NO: 194)	196	85			
JB10397	Ac-FQSKKNVVRGYFERLRAKL-NH2 (SEQ ID NO: 195)	240	128			
JB10402	비오 란-11ds-FQSKNNVVFEGYFERLRAKL-NH2 (SEQ ID NO: 973)	185	159			
JB10403	비오 란-11ds-FQSKKNVVDGYFERLRAKL-NH2 (SEQ ID NO: 972)	253	188			
JB10404	비오 란-11ds-FQSKKNVVFEGYFERLRAKL-NH2 (SEQ ID NO: 975)	115	52			
JB10405	비오 란-FQSKKNVVFEGYFERLRAKL-NH2 (SEQ ID NO: 975)	142	152			
JB10406	Ac-11ds-FQSKKNVVFEGYFERLRAKL-NH2 (SEQ ID NO: 268)	114	63			
JB10471	Ac-FQSKGNVVTGYFERLRAKL-NH2 (SEQ ID NO: 26)	193	164		42.5	34.7
JB10472	Ac-FQSKGNVFMGYFERLRAKL-NH2 (SEQ ID NO: 27)	197	159			
JB10473	Ac-FQSKGNVVFHGYFERLRAKL-NH2 (SEQ ID NO: 28)	188	145			

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JB10474	Ac-FQSKGNVFEVKGYTEERLRAKL-NH2 (SEQ ID NO: 29)	200	191		50.5	45.2
JB10475	Ac-FQSKGNVFEVKGYTEERLRAKL-NH2 (SEQ ID NO: 30)	202	165			
JB10476	Ac-FQSKGNVFEVDGYFERLRAKL-NH2 (SEQ ID NO: 31)	202	164		43.2	41.5
JB10477	Ac-FQSKGNVFEVDGYFERLRAKL-NH2 (SEQ ID NO: 32)	231	194	0.26	47.2	41.3
JB10478	Ac-FQSKDNVFEVTGYFERLRAKL-NH2 (SEQ ID NO: 33)	161	104			
JB10479	Ac-FQSKDNVFEVNGYTEERLRAKL-NH2 (SEQ ID NO: 34)	161	105			
JB10480	Ac-FQSKDNVFEVHGYTEERLRAKL-NH2 (SEQ ID NO: 35)	180	125			
JB10481	Ac-FQSKDNVFEVKGYTEERLRAKL-NH2 (SEQ ID NO: 36)	168	124			
JB10482	Ac-FQSKDNVFEVDGYFERLRAKL-NH2 (SEQ ID NO: 37)	183	133			
JB10483	Ac-FQSKDNVFEVDGYFERLRAKL-NH2 (SEQ ID NO: 38)	191	136			
JB10484	Ac-FQSKDNVFEVDGYFERLRAKL-NH2 (SEQ ID NO: 976)	178	111			
JB10485	Ac-FQSKNNVFEVTGYFERLRAKL-NH2 (SEQ ID NO: 39)	186	150			
JB10486	Ac-FQSKNNVFEVNGYTEERLRAKL-NH2 (SEQ ID NO: 40)	171	112			
JB10487	Ac-FQSKNNVFEVHGYTEERLRAKL-NH2 (SEQ ID NO: 41)	178	138			
JB10488	Ac-FQSKNNVFEVKGYTEERLRAKL-NH2 (SEQ ID NO: 42)	193	153			
JB10489	Ac-FQSKNNVFEVKGYTEERLRAKL-NH2 (SEQ ID NO: 43)	185	148			
JB10490	Ac-FQSKQNVFEVTGYFERLRAKL-NH2 (SEQ ID NO: 44)	162	79			
JB10491	Ac-FQSKQNVFEVNGYTEERLRAKL-NH2 (SEQ ID NO: 197)	169	96			
JB10492	Ac-FQSKQNVFEVHGYTEERLRAKL-NH2 (SEQ ID NO: 198)	124	69			
JB10493	Ac-FQSKQNVFEVKGYTEERLRAKL-NH2 (SEQ ID NO: 199)	151	92			
JB10494	Ac-FQSKQNVFEVDGYFERLRAKL-NH2 (SEQ ID NO: 45)	163	102			
JB10495	Ac-FQSKQNVFEVKGYTEERLRAKL-NH2 (SEQ ID NO: 200)	156	93			
JB10499	Ac-FQS-NmeI-ys-GNVFVGYFERLRAKL-NH2 (SEQ ID NO: 202)	192	129			
JB10500	Ac-FQSK-NmeI-Gly-NVFEVGYFERLRAKL-NH2 (SEQ ID NO: 46)	254	239	0.17		51.1
JB10501	Ac-FQSK-NmeI-Gly-NmeI-Phe-GYTEERLRAKL-NH2 (SEQ ID NO: 417)	95	21			
JB10504	Ac-FQSKGNVFEV-NmeI-Phe-GYTEERLRAKL-NH2 (SEQ ID NO: 418)	62				
JB10505	Ac-FQSKGNVFEV-NmeI-Gly-YTEERLRAKL-NH2 (SEQ ID NO: 269)	204	90			
JB10508	Ac-FQSKGNVFEVGYF-NmeI-Glu-RLRAKL-NH2 (SEQ ID NO: 678)	82				

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JB10514	Ac-IQSKGNVF-VFGYIERLRAK-NmetL.eu-NH2 (SEQ ID NO: 419)	69					
JB10515	Ac-bHomophc-QSKGNVFVFGYIERLRAKL-NH2 (SEQ ID NO: 420)	86	31				
JB10517	Ac-IQ-bHomophc-KGNVFVFGYIERLRAKL-NH2 (SEQ ID NO: 421)	34					
JB10518	Ac-FQS-bHomolys-GNVFVFGYIERLRAKL-NH2 (SEQ ID NO: 422)	38					
JB10519	Ac-IQSK-bAla-NVFVFGYIERLRAKL-NH2 (SEQ ID NO: 270)	105	37				
JB10520	Ac-IQSKG-bGln-VFVFGYIERLRAKL-NH2 (SEQ ID NO: 271)	100	42				
JB10522	Ac-IQSKGNV-bHomophc-VFVFGYIERLRAKL-NH2 (SEQ ID NO: 681)	40					
JB10524	Ac-IQSKGNVF-bHomophc-GYIERLRAKL-NH2 (SEQ ID NO: 682)	36					
JB10527	Ac-IQSKGNVF-VFGY-bHomophc-ERLRAKL-NH2 (SEQ ID NO: 683)	44					
JB10528	Ac-IQSKGNVF-VFGYI-bE-RLRAKL-NH2 (SEQ ID NO: 272)	151	100				
JB10531	Ac-IQSKGNVF-VFGYIERL-bHomophc-Arg-ARL-NH2 (SEQ ID NO: 203)	170	99				
JB10532	Ac-IQSKGNVF-VFGYIERL.R-bAla-KL-NH2 (SEQ ID NO: 423)	118	53				
JB10533	Ac-IQSKGNVF-VFGYIERL.RA-bHomok-L-NH2 (SEQ ID NO: 424)	97	29				
JB10534	Ac-IQSKGNVF-VFGYIERLRAK-bH-NH2 (SEQ ID NO: 204)	156	130				
JB10535	Ac-IQSKGNVF-VFGYIE-Cit-LRAKL-NH2 (SEQ ID NO: 685)	97	28				
JB10536	Ac-IQSKGNVF-VFGYIERL-Cit-ARL-NH2 (SEQ ID NO: 273)	196	133				
JB10538	Ac-IQSKGNVF-VFGYIERL-Nic-ARL-NH2 (SEQ ID NO: 425)	118	59				
JB10564	Ac-IQSKKNVF-VFGYIERLRAKL-NH2 (SEQ ID NO: 205)	120	61				
JB10613	Ac-IQSKGNVF-VFGYIERLRAKL-OH (SEQ ID NO: 283)	156	55				
JB10614	NH2-FQSKGNVFVFGYIERLRAKL-OH (SEQ ID NO: 720)	54					
JB10615	NH2-FQSKGNVFVFGYIERLRAKL-NH2 (SEQ ID NO: 284)	105	33				
JB10616	NH2-GSFQSKKNVFVDGYIERLRAKL-OH (SEQ ID NO: 285)	162	77				
JB10616	NH2-GSFQSKKNVFVDGYIERLRAKL-OH (SEQ ID NO: 285)	147	29				
JB10651	Ac-IQSKGNVHVKGYIERLRAKL-NH2 (SEQ ID NO: 48)	250	216				
JB10652	Ac-IQSKGNVHVVDGYIERLRAKL-NH2 (SEQ ID NO: 49)		207				
JB10653	Ac-FQSPGNVHVKGYIERLRAKL-NH2 (SEQ ID NO: 50)		237				
JB10654	Ac-FQSPGNVHVVDGYIERLRAKL-NH2 (SEQ ID NO: 51)		214				
JB10655	Ac-FQSKGNVFVFGYIERLRAKL-NH2 (SEQ ID NO: 52)	150	120				
JB10656	Ac-FQSKGNLVFVFGYIERLRAKL-NH2 (SEQ ID NO: 286)	86	42				

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JB10657	Ac-F:QSKGNVFIHGYFEERL RAKL-NH2 (SEQ ID NO: 287)	92	47			
JB10663	Ac-F:QSKANVFVHGYFEERL RAKL-NH2 (SEQ ID NO: 53)		180			
JB10668	Ac-F:QSKANVFVTGYFARL RAKL-NH2 (SEQ ID NO: 54)		167			
JB10681	Ac-F:QSK-Nmg-AVEVHGYFARL RAKL-NH2 (SEQ ID NO: 206)		158			
JB10683	Ac-F:QSK-Nmg-AVEVDGYFARL RAKL-NH2 (SEQ ID NO: 55)		228			
JB10696	Ac-F:QSKAVFVFGYFEERL RAKL-NH2 (SEQ ID NO: 288)	64	60			
JB10697	Ac-F:QSKGNVFDGYFEERL-Dap-AKL-NH2 (SEQ ID NO: 56)		188			
JB10699	Ac-F:QSKGNVFDGYFEERL-Om-AKL-NH2 (SEQ ID NO: 57)		207			
JB10700	Ac-F:QSKGNVFDGYFEERL-Nva-AKL-NH2 (SEQ ID NO: 58)		218			
JB10704	Ac-F:QSKKNVFVGYFARL RAKL-NH2 (SEQ ID NO: 289)	96	35			
JB10708	Ac-F:QSKANVFVAGYFEERL RAKL-NH2 (SEQ ID NO: 59)		200			
JB10714	Ac-F:QSKAVFVDGYFARL RAKL-NH2 (SEQ ID NO: 60)		209			
JB10717	Ac-F:QSK-Nmg-NVFTGYFARL RAKL-NH2 (SEQ ID NO: 61)	271	241	0.11		42.1
JB10720	Ac-F:QSK-Nmg-NVFTGYFARL RAKL-NH2 (SEQ ID NO: 62)		271			
JB10732	Ac-F:QSKGNVFDGYFEERL-Hct-AKL-NH2 (SEQ ID NO: 63)		258			
JB10733	Ac-F:QSKGNVFDGYFEERL-Har-AKL-NH2 (SEQ ID NO: 64)		213			
JB10739	Ac-F:QSKGNVFDGYFEERL-Opn-AKL-NH2 (SEQ ID NO: 65)		193			
JB10740	Ac-F:QSKGNVFDGYFEERL-Alb-AKL-NH2 (SEQ ID NO: 66)	236	184	0.29		33.3
JB10754	Ac-F:QSK-Nmg-AVFTGYFARL RAKL-NH2 (SEQ ID NO: 67)		224			
JB10759	Ac-F:QSKKNVFVFGYFEERL-Aib-AKL-NH2 (SEQ ID NO: 207)	159	131			
JB10765	Ac-F:QSKGNVFDGYFEERL-Ecw-AKL-NH2 (SEQ ID NO: 68)		205			
JB10775	Ac-F:QSKGNVFTGYFDRL RAKL-NH2 (SEQ ID NO: 69)		157			
JB10778	Ac-F:QSKGNVFKGYFDRL RAKL-NH2 (SEQ ID NO: 209)		176			
JB10779	Ac-F:QSKGNVEGVEFDRL RAKL-NH2 (SEQ ID NO: 210)		145			
JB10780	Ac-F:QSK-Nmg-NVFTGYFARL RAKL-NH2 (SEQ ID NO: 70)		227			
JB10781	Ac-F:QSKGNVFDGYFEERL RAKL-NH2 (SEQ ID NO: 211)		156			
JB10789	Ac-F:QSK-Nmg-NVFTGYFEERL-Nle-AKL-NH2 (SEQ ID NO: 71)	266	230	0.26		
JB10806	Ac-F:QSK-Nmg-NVFTAGYFARL RAKL-NH2 (SEQ ID NO: 74)		281			
JB10837	Ac-F:QSK-Nmg-NVFTGYFEERL-Nle-AKL-NH2 (SEQ ID NO: 213)		259			

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JBT0844	Ac-FQSKANVFVDGYFEERL.RAKL-NH2 (SEQ ID NO: 300)		195			
JBT0850	Ac-FQSKAAVFVAGYFARL.RAKL-NH2 (SEQ ID NO: 302)		174			
JBT0854	Ac-FQSKAAVFVAGYFARL-Nle-AKL-NH2 (SEQ ID NO: 490)		34			
JBT0870	Ac-FQSKAAVFVTGYFARL.RAKL-NH2 (SEQ ID NO: 214)		167			
JBT0886	Ac-FQSKANVFVDGYFARL.RAKL-NH2 (SEQ ID NO: 215)		186			
JBT0919	Ac-FQSKANVFVTGYFEERL.RAKL-NH2 (SEQ ID NO: 79)		204			
JBT0931	Ac-FQSKGNVFVDGYFEERL-Eag-AKL-NH2 (SEQ ID NO: 82)		172			
JBT0946	Ac-FQSKGNVFVDGYFEERL-Dab-AKL-NH2 (SEQ ID NO: 85)		177			
JBT0950	Ac-FQSKANVFVTGYFARL.RAKL-NH2 (SEQ ID NO: 217)		115			
JBT0973	Ac-FQSKGNVFVDGYFEERL-Cla-AKL-NH2 (SEQ ID NO: 92)		193			
JBT1006	Ac-FQSKGNVFVDGYFEERL-Hle-AKL-NH2 (SEQ ID NO: 96)		210			
JBT1035	Ac-FQSK-Nmg-AVFVAGYFARL-Nle-AKL-NH2 (SEQ ID NO: 218)		172			
JBT1037	Ac-FQSKGNVFVDGYFEERL-Nle-AKL-NH2 (SEQ ID NO: 104)		192			
JBT1043	Ac-FQSKANVFVDGYFEERL-Nle-AKL-NH2 (SEQ ID NO: 106)		203			
JBT1082	Ac-FQSKAAVFVTGYFARL.RAKL-NH2 (SEQ ID NO: 565)		90			
JBT1084	Ac-FQSK-Nmg-AVFVAGYFARL.RAKL-NH2 (SEQ ID NO: 109)		192			
JBT1122	Ac-FQSK-Nmg-NVFVDGYFARL-Nle-AKL-NH2 (SEQ ID NO: 113)		353			
JBT1133	Ac-FQSKAAVFVDGYFARL.RAKL-NH2 (SEQ ID NO: 115)	233	236			
JBT1134	Ac-FQSKAAVFVDGYFARL.RAKL-NH2 (SEQ ID NO: 116)	240	204			
JBT1135	Ac-FQSKDAVFVDGYFARL.RAKL-NH2 (SEQ ID NO: 221)	227	146			
JBT1136	Ac-FQSKDAVFVDGYFARL.RAKL-NH2 (SEQ ID NO: 117)	283	227			
JBT1137	Ac-FQSKAAVFVAGYFARL.RAKL-NH2 (SEQ ID NO: 118)	218	231			
JBT1138	Ac-FQSKAAVFVAGYFARL.RAKL-NH2 (SEQ ID NO: 222)	185	161			
JBT1139	Ac-FQSKDAVFVAGYFARL.RAKL-NH2 (SEQ ID NO: 223)	205	146			
JBT1140	Ac-FQSKAAVFVAGYFARL.RAKL-NH2 (SEQ ID NO: 119)	203	124			
JBT1141	Ac-FQSKAAVFVAGYFARL.RAKL-NH2 (SEQ ID NO: 120)	223	217	0.12		
JBT1142	Ac-FQSKGVVFVKGYFARL.RAKL-NH2 (SEQ ID NO: 224)	299	233			
JBT1143	Ac-FQSKDAVFVAGYFARL.RAKL-NH2 (SEQ ID NO: 225)	214	170			
JBT1144	Ac-FQSKDAVFVKGYFARL.RAKL-NH2 (SEQ ID NO: 121)	200	164	0.21		

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JB11145	Ac-FQSKGAVFVTCGYFARLRAKL-NH2 (SEQ ID NO: 122)	274	243			
JB11146	Ac-FQSKGAVFVTCGYFARLRAKL-NH2 (SEQ ID NO: 226)	231	185			
JB11147	Ac-FQSKDAVFVTCGYFARLRAKL-NH2 (SEQ ID NO: 227)	230	146			
JB11148	Ac-FQSKDAVFVTCGYFARLRAKL-NH2 (SEQ ID NO: 123)	231	185			
JB11151	Ac-FQSKKNVFVFGYFERRAKD-NH2 (SEQ ID NO: 937)	27				
JB11153	Ac-FQSKKNVFVFGYFERRAKL-NH2 (SEQ ID NO: 705)	125	45			
JB11155	Ac-FQSK-Nmg-NVFVTCGYFERRAKL-NH2 (SEQ ID NO: 125)		258			
JB11156	Ac-FQSKANVFVDGYFARL-NH2 (SEQ ID NO: 126)		173			
JB11157	Ac-FQSKANVFVAGYFARLRAKL-NH2 (SEQ ID NO: 127)		178			
JB11584	Ac-FQSK-Nmg-NVFVDGYFERRAib-AKL-NH2 (SEQ ID NO: 164)	330	301	0.16		48.6
JB11585	Ac-FQSK-Nmg-NVFVTCGYFERRAib-AKL-NH2 (SEQ ID NO: 165)	300	269	0.13		
JB11587	Ac-FQSKGNVFVDGYFERRAib-AKL-NH2 (SEQ ID NO: 167)		189	0.32		
JB11590	Ac-FQSKGNVFVTCGYFERRAib-AKL-NH2 (SEQ ID NO: 401)	35				
JB11591	Ac-FQSKGNVFVDGYFERRAib-AKL-NH2 (SEQ ID NO: 168)	148	75			
JB11592	Ac-FCFQSKGNVFVDGYFERRAib-AKL-NH2 (SEQ ID NO: 402)	138	46			
JB11593	Ac-FQSKICNVFVDGYFERRAib-AKL-NH2 (SEQ ID NO: 670)	110	39			
JB11594	Ac-FQSKGNVFVTCGYFERRAib-AKL-NH2 (SEQ ID NO: 671)	35				
JB11595	Ac-FCFQSKGNVFVTCGYFERRAib-AKL-NH2 (SEQ ID NO: 403)	82	22			
JB11596	Ac-FCFQSKGNVFVTCGYFERRAib-AKL-NH2 (SEQ ID NO: 404)	116	36			
JB11853	PEG(40KD)-FQSKGNVFVDGYFERRAib-AKL-NH2 (SEQ ID NO: 175)		605			
JB11855	Ac-FQSKGNVFVDGYFERRAib-AKL-NH2 (SEQ ID NO: 252)		642			

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JB10120 클래스		트롬빈 생성 분석			
펠티드	서열	10 μ M 펠티드에서 FV/III-억제된 혈장에서 FEIBA-등가 활성 [mU/mL]	1.1 μ M 펠티드에서 FV/III-억제된 혈장에서 FEIBA-등가 활성 [mU/mL]	EC ₅₀ (μ M), FV/III-억제된 혈장	10 μ M 펠티드에서 FV/III 결여 혈장에서 % FV/III-등가 활성
JB10120	Ac-SGASRYYKWF(CGMRDMKGTMSCIYVWKFRYDTS-NH2 (SEQ ID NO: 1047)	269	95	2.78	28.8
JB10247	Ac-SGASRYYKWF(CGMRDMKGTMSCVVWKFRYDTS-NH2 (SEQ ID NO: 1213)	273			8.6
JB10248	Ac-KKSGASRYYKWF(CGMRDMKGTMSCIYVWKFRYDTSKK-NH2 (SEQ ID NO: 1001)	164			
JB10319	Ac-SGASRYYKWF(CGMRDMKGTMSCIYVWKFRY-NH2 (SEQ ID NO: 1075)	383	187		29.3
JB10320	Ac-SGASRYYKWF(CGMRDMKGTMSCIYVWKFRYDTS-NH2 (SEQ ID NO: 1103)	153	21		
JB10323	Ac-SRYYKWF(CGMRDMKGTMSCIYVWKFRYDTS-NH2 (SEQ ID NO: 1076)	355	142		31.4
JB10324	Ac-KWF(CGMRDMKGTMSCIYVWKFRYDTS-NH2 (SEQ ID NO: 1155)	91			
JB10329	Ac-KWF(CGMRDMKGTMSCIYVWKFRYDTS-NH2 (SEQ ID NO: 1156)	70			6.6
JB10333	Ac-KWF(CGMRDMKGTMSCVVWKFRYDTS-NH2 (SEQ ID NO: 1207)	40			
JB10333	Ac-KWF(CGMRDMKGTMSCVVWKFRYDTS-NH2 (SEQ ID NO: 1207)	114			
JB10411	Ac-SGASRYYKWF(CG-NIe-RD-NIe-KGT-NIe-SC)YVWKFRYDTS-NH2 (SEQ ID NO: 1104)	97			

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JB10412	Ac-KW[ICG-NiE-RD-NiE-KGT-NiE-SC]VWVKF-NH2 (SEQ ID NO: 1209)	46				
JB10415	Ac-SRYKW[ICMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1003)	291	182	0.57	47.2	36.5
JB10416	Ac-SRYKW[ICG-NiE-RD-NiE-KGT-NiE-SC]VWVKF-NH2 (SEQ ID NO: 1077)	256	95		36.6	22.3
JB10437	Ac-ARYKW[ICMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1048)	362	225			
JB10438	Ac-SAYKW[ICMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1078)	300	137			
JB10439	Ac-SRAKW[ICMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1105)	266	88			
JB10440	Ac-SRYAW[ICMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1106)	175	33			
JB10441	Ac-SRYKA[ICMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1230)	18	5			
JB10442	Ac-SRYKWA[ICMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1231)	53	8			
JB10444	Ac-SRYKW[ICMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1004)	331	229	0.42	53.4	45.7
JB10445	Ac-SRYKW[ICMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1107)	157	40			
JB10446	Ac-SRYKW[ICMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1079)	287	140			
JB10447	Ac-SRYKW[ICMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1158)	101				
JB10448	Ac-SRYKW[ICMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1108)	324	138			
JB10449	Ac-SRYKW[ICMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1080)	362	217		54.1	34.2
JB10450	Ac-SRYKW[ICMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1159)	232	68			
JB10451	Ac-SRYKW[ICMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1081)	339	189			
JB10452	Ac-SRYKW[ICMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1109)	265	119			
JB10453	Ac-SRYKW[ICMRDMKGTMAC]VWVKF-NH2 (SEQ ID NO: 1110)	282	111			
JB10455	Ac-SRYKW[ICMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1049)	316	203			
JB10456	Ac-SRYKW[ICMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1232)	16				
JB10457	Ac-SRYKW[ICMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1161)	76				
JB10458	Ac-SRYKW[ICMRDMKGTMSC]VWVAI-NH2 (SEQ ID NO: 1082)	292	161			
JB10459	Ac-SRYKW[ICMRDMKGTMSC]VWVKA-NH2 (SEQ ID NO: 1083)	266	137			
JB10460	Ac-SRYKW[ICMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1050)	262	138			
JB10461	Ac-YKW[ICMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1111)	197	47			
JB10625	Ac-SRYKW[ICMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1244)	5	3			
JB10626	Ac-SRYKW[ICMRDMKGTMSC]VWVKF-NH2 (SEQ ID NO: 1164)	81	10			

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JB10627	Ac-SRYKWHICGMRDMGTMSC VWVKF-NH2 (SEQ ID NO: 1165)	62	15			
JB10628	Ac-SRYKWHICGMRDMKGMSC VWVKF-NH2 (SEQ ID NO: 1166)	54	16			
JB10631	Ac-SRYKWHICGMRDMKGTMSC VWVKF-NH2 (SEQ ID NO: 1113)	171	60			
JB10634	Ac-SRYKWHICGMRDMKGTMSC VWVKF-NH2 (SEQ ID NO: 1051)	311	156			
JB10635	Ac-SRYKWHICGMRDMKGTMSC VWVKF-NH2 (SEQ ID NO: 1114)	123				
JB10641	Ac-SRYKWHICPMRDMKGTMSC VWVKF-NH2 (SEQ ID NO: 1247)	21				
JB10642	Ac-SRYKWHICGPRDMKGTMSC VWVKF-NH2 (SEQ ID NO: 1248)	32				
JB10643	Ac-SRYKWHICGMPDMKGTMSC VWVKF-NH2 (SEQ ID NO: 1006)	289	192	0.63		
JB10644	Ac-SRYKWHICGMRDPMKGTMSC VWVKF-NH2 (SEQ ID NO: 1172)	31				
JB10645	Ac-SRYKWHICGMRDPMKGTMSC VWVKF-NH2 (SEQ ID NO: 1084)		109			
JB10646	Ac-SRYKWHICGMRDPMKGTMSC VWVKF-NH2 (SEQ ID NO: 1173)	84				
JB10648	Ac-SRYKWHICGMRDPMKGTMSC VWVKF-NH2 (SEQ ID NO: 1174)	42				
JB10649	Ac-SRYKWHICGMRDPMKGTMSC VWVKF-NH2 (SEQ ID NO: 1175)	64				
JB11416	Ac-JDRYKWHICGMRDMKGTMSC VWVKF-NH2 (SEQ ID NO: 1007)	253	102	1.38		
JB11417	Ac-SDYKWHICGMRDMKGTMSC VWVKF-NH2 (SEQ ID NO: 1116)	140	30	4.79		
JB11418	Ac-SRDYKWHICGMRDMKGTMSC VWVKF-NH2 (SEQ ID NO: 1176)	67		3.15		
JB11419	Ac-SRYKWHICGMRDMKGTMSC VWVKF-NH2 (SEQ ID NO: 1117)	120		3.80		
JB11426	Ac-SRYKWHICGMRDMKGTMSC VWVKF-NH2 (SEQ ID NO: 1008)	287	135	0.94		
JB11436	Ac-FRYKWHICGMRDMKGTMSC VWVKF-NH2 (SEQ ID NO: 1053)	228	72	2.54		
JB11437	Ac-SFYKWHICGMRDMKGTMSC VWVKF-NH2 (SEQ ID NO: 1010)	284	157	0.85		
JB11438	Ac-SRFKWHICGMRDMKGTMSC VWVKF-NH2 (SEQ ID NO: 1011)	218	81	1.63		
JB11445	Ac-SRYKWHICGMRDPMKGTMSC VWVKF-NH2 (SEQ ID NO: 1012)	213	89	1.75		
JB11446	Ac-SRYKWHICGMRDPMKGTMSC VWVKF-NH2 (SEQ ID NO: 1054)	169	64	1.53		
JB11448	Ac-SRYKWHICGMRDMKGTMSC VWVKF-NH2 (SEQ ID NO: 1013)	184	34			
JB11449	Ac-SRYKWHICGMRDMKGTMSC VWVKF-NH2 (SEQ ID NO: 1014)	276	116	1.45		
JB11455	Ac-GRYKWHICGMRDMKGTMSC VWVKF-NH2 (SEQ ID NO: 1015)	226	66	2.50		
JB11465	Ac-SRYKWHICGMRDMKGTMSC VWVKF-NH2 (SEQ ID NO: 1016)	235	74	2.46		
JB11474	Ac-KRYKWHICGMRDMKGTMSC VWVKF-NH2 (SEQ ID NO: 1017)	275	136	1.06		
JB11481	Ac-SRYKWHICGMRDMKGTMSC VWVKF-NH2 (SEQ ID NO: 1017)	303	123	1.48		

JB11483	Ac-SRYKWEICGMRDKKGTMSCIYVWKI-NH2 (SEQ ID NO: 1057)	275	88			
JB11492	Ac-LRYKWEICGMRDMKGTMSCIYVWKI-NH2 (SEQ ID NO: 1018)	239	100	1.55		
JB11493	Ac-SLYKWEICGMRDMKGTMSCIYVWKI-NH2 (SEQ ID NO: 1060)	261	122	1.17		
JB11502	Ac-SRYKWEICGMRDLKGTMSCIYVWKI-NH2 (SEQ ID NO: 1019)	307	175	0.77		
JB11503	Ac-SRYKWEICGMRDMLGTMSCIYVWKI-NH2 (SEQ ID NO: 1063)	202	105	0.95		
JB11506	Ac-SRYKWEICGMRDMKGTIISCIYVWKI-NH2 (SEQ ID NO: 1064)	191	49	2.99		
JB11512	Ac-SRYKWEICGMRDMKGTMSCIYVWKI-NH2 (SEQ ID NO: 1020)	294	152	0.89		
JB11523	Ac-SRYKWEICGMRDMSGTMSCIYVWKI-NH2 (SEQ ID NO: 1022)	255	115	1.30		
JB11541	Ac-SRYKWEICGMRDMKGTMSCIYVWPI-NH2 (SEQ ID NO: 1023)	291	155	0.82		
JB11543	Ac-SRYKWEICGMRDMKGTMSCIYVWKI-NH2 (SEQ ID NO: 1098)	192	39	3.10		
JB11544	H-SRYKWEICGMRDMKGTMSCIYVWKI-OH (SEQ ID NO: 1024)	235	98			
JB11545	H-SRYKWEICGMRDMKGTMSCIYVWKI-NH2 (SEQ ID NO: 1099)	152	21	7.92		
JB11557	H-RYKWEICGMRDMKGTMSCIYVWKI-NH2 (SEQ ID NO: 173)	208	91			
JB11558	H-YKWEICGMRDMKGTMSCIYVWKI-NH2 (SEQ ID NO: 1149)	115	20			
JB11559	Ac-SRYKWEICGARDMKGTMSCIYVWKI-NH2 (SEQ ID NO: 1150)	131	42			
JB11562	Ac-SRYKWEICGKRDmkGTMSCIYVWKI-NH2 (SEQ ID NO: 1193)	54				
JB11567	Ac-SRYKWEICGMRDdkGTMSCIYVWKI-NH2 (SEQ ID NO: 1101)	226	76			
JB11570	Ac-SRYKWEICGMRDlKGTMSCIYVWKI-NH2 (SEQ ID NO: 1025)	250	76			
JB11574	Ac-SRYKWEICGMRDMdGTMSCIYVWKI-NH2 (SEQ ID NO: 1153)	173	34			

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JB10122 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
JB10122	AC-SGYASFTPLAVQLHVSKRSEKEMALARLYYKTS-NH2 (SEQ ID NO: 2002)	170	31		160	
JB10221	Ac-KKSGYASFTPLAVQLHVSKRSEKEMALARLYYKTSKK-NH2 (SEQ ID NO: 2003)	206	150			
JB10224	Ac-KKSGYASFTPLAVQLHVSKRSEKEMALARLYYKK-NH2 (SEQ ID NO: 2298)	152	58	1.10	162	
JB10225	Ac-KKSGYASFTPLAVQLHVSKRSEKEMALARKK-NH2 (SEQ ID NO: 2128)	55				
JB10367	Ac-ASFTPLAVQLHVSKRSEKEMALARL-NH2 (SEQ ID NO: 2317)	28				
JB10368	Ac-ASFTPLAVQLHVSKRSEKEMALARLY-NH2 (SEQ ID NO: 2130)	36				
JB10369	Ac-ASFTPLAVQLHVSKRSEKEMALARLYY-NH2 (SEQ ID NO: 2017)	68				
JB10370	Ac-ASFTPLAVQLHVSKRSEKEMA-NH2 (SEQ ID NO: 2318)	39				
JB10371	Ac-GYASFTPLAVQLHVSKRSEKEMA-NH2(SEQ ID NO: 2319)	25				
JB10660	Ac-AGYASFTPLAVQLHVSKRSEKEMALARLYYKTS-NH2 (SEQ ID NO: 2004)	141	27			
JB10661	Ac-SAYASFTPLAVQLHVSKRSEKEMALARLYYKTS-NH2 (SEQ ID NO: 215)	215	49			

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	2005)								
JB10662	Ac-SGASFPPLAVQJLHVSKRSKEMALARL.YYKTS-NH2 (SEQ ID NO: 2131)	43							
JB10664	Ac-SGYAASFPLAVQJLHVSKRSKEMALARL.YYKTS-NH2 (SEQ ID NO: 2006)	178	26						
JB10665	Ac-SGYASAPLAVQJLHVSKRSKEMALARL.YYKTS-NH2 (SEQ ID NO: 2132)	49							
JB10666	Ac-SGYASFALAVQJLHVSKRSKEMALARL.YYKTS-NH2 (SEQ ID NO: 2001)	99	23						
JB10667	Ac-SGYASFPAVQJLHVSKRSKEMALARL.YYKTS-NH2 (SEQ ID NO: 2018)	95							
JB10669	Ac-SGYASFPLAAQJLHVSKRSKEMALARL.YYKTS-NH2 (SEQ ID NO: 2133)	20							
JB10670	Ac-SGYASFPLAVLHVSKRSKEMALARL.YYKTS-NH2 (SEQ ID NO: 2007)	101							
JB10671	Ac-SGYASFPLAVQJAHVSKRSKEMALARL.YYKTS-NH2 (SEQ ID NO: 2019)	120							
JB10673	Ac-SGYASFPLAVQJLHVSKRSKEMALARL.YYKTS-NH2 (SEQ ID NO: 2135)	39							
JB10674	Ac-SGYASFPLAVQJLHVAKRSKEMALARL.YYKTS-NH2 (SEQ ID NO: 2008)	234	90						
JB10675	Ac-SGYASFPLAVQJLHVSARSKEMALARL.YYKTS-NH2 (SEQ ID NO: 2136)	20							
JB10677	Ac-SGYASFPLAVQJLHVSKRAKEMALARL.YYKTS-NH2 (SEQ ID NO: 2009)	178	37						
JB10678	Ac-SGYASFPLAVQJLHVSKRSAEMALARL.YYKTS-NH2 (SEQ ID NO: 2010)	153	23						
JB10679	Ac-SGYASFPLAVQJLHVSKRSKAMALARL.YYKTS-NH2 (SEQ ID NO: 2020)	20							
JB10682	Ac-SGYASFPLAVQJLHVSKRSKEMAARL.YYKTS-NH2 (SEQ ID NO: 2020)	133	27						

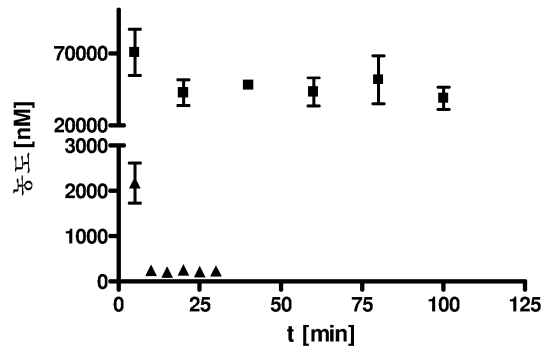
도면30c

	2139)						
JB10684	Ac-SGYASFPLAVQ _L HVSKRSKEMAL AALYYKTS-NH2 (SEQ ID NO: 2011)	159	28				
JB10685	Ac-SGYASFPLAVQ _L HVSKRSKEMAL ARAYYKTS-NH2 (SEQ ID NO: 2021)	131	21				
JB10686	Ac-SGYASFPLAVQ _L HVSKRSKEMAL ARLAYKTS-NH2 (SEQ ID NO: 2140)	109					
JB10687	Ac-SGYASFPLAVQ _L HVSKRSKEMAL ARLYAKTS-NH2 (SEQ ID NO: 2141)	124					
JB10688	Ac-SGYASFPLAVQ _L HVSKRSKEMAL ARLYYATS-NH2 (SEQ ID NO: 2012)	148	29				
JB10689	Ac-SGYASFPLAVQ _L HVSKRSKEMAL ARLYYKAS-NH2 (SEQ ID NO: 2013)	184	40				
JB10690	Ac-SGYASFPLAVQ _L HVSKRSKEMAL ARLYYKTA-NH2 (SEQ ID NO: 2014)	187	41				
JB11579	Ac-GYASFPLAVQ _L HVAKRSKEMA-NH2 (SEQ ID NO: 2015)	66					
JB11581	Ac-GYASFPLAVQ _L HVAKRSKEMA-NH2 (SEQ ID NO: 2321)	67					
JB11582	Ac-GYASFPLAVQ _L HVMKRSKEMA-NH2 (SEQ ID NO: 2022)	73					
JB11583	Ac-GYASFPLAVQ _L HVMKRSKEMA-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



도면32aa

시료 번호	시열	진화도 클래스	IC50 평균 [nM]	% 억제 (JB1-0477에 비한)	시료 번호
JB10047	Ac-SGVGRLOVAFQSKKNVFVFGYFERLRAKLTS-NH2	C	115		253
JB10155	Ac-KKSGVGRLOVAFQSKKNVFVFGYFERLRAKLTSKK-NH2	A	30		8
JB10156*	Ac-VVEKLTVQQLSFLNRRRTSQYAGFGAGKV-NH2		>4170		742
JB10157*	Ac-RVELYISQKAGGLVKLVERQAHQINVSFR-NH2		>4170		743
JB10158	Ac-KKSGVGRLOVAFQSKKNVFVFGYFERLRAKKK-NH2	A	41		9
JB10159	Ac-KKSGVGRLOVAFQSKKNVFVFGYFERLKK-NH2		>8300		744
JB10160	Ac-KKSGVGRLOVAFQSKKNVFVFGYFERK-NH2		>8300		745
JB10161	Ac-KKSGVGRLOVAFQSKKNVFVFK-NH2		>8300		746
JB10162	Ac-KKGRLOVAFQSKKNVFVFGYFERLRAKLTSKK-NH2	A	36		10
JB10163	Ac-KKQVAFQSKKNVFVFGYFERLRAKLTSKK-NH2	A	18		11
JB10164	Ac-KKFQSKKNVFVFGYFERLRAKLTSKK-NH2	A	43		12
JB10165	Ac-KKKKNVFVFGYFERLRAKLTSKK-NH2	F	6134		712
JB10169	Ac-KKAFQSKKNVFVFGYFERLRAKKK-NH2	C	120		254
JB10170	Ac-KKFQSKKNVFVFGYFERLRAKLKK-NH2	A	39		13
JB10171	Ac-KKQSKKNVFVFGYFERLRAKLTKK-NH2	C	123		255
JB10172	Ac-KKQSKKNVFVFGYFERLRAKK-NH2	D	295		406
JB10174	Ac-KKAFQSKKNVFVFGYFERLRAKLKK-NH2	A	44		14
JB10175	Ac-KKAFQSKKNVFVFGYFERLRAKLTKK-NH2	B	65		182
JB10291	Ac-KFAMDKSGVGRLOVAFQSKKNVFVFGYFERLRAKLTSKK-NH2	A	46		15
JB10293	Ac-IQSKKNVFVFGYFERLRAKL-NH2	C	179	61	256
JB10294	Ac-YQSKKNVFVFGYFERLRAKL-NH2	C	188		257
JB10295	Ac-ISSKKNVFVFGYFERLRAKL-NH2	F	2777	37	713
JB10296	Ac-FQNKKNVFVFGYFERLRAKL-NH2	D	575		407
JB10297	Ac-IQSKNNVFVFGYFERLRAKL-NH2	B	63		183

도면32ab

시료 번호	% 억제 (JB1-0477에 비한)	IC50 평균 [nM]	전환도 클래스	시열	시열 번호
JB10298		>206		Ac-I:QSKQNVFVFGYFERLRAKL-NH2	747
JB10299	25	446	D	Ac-I:QSKKNVFAFGYFERLRAKL-NH2	408
JB10300		943	D	Ac-I:QSKKNVFSFGYFERLRAKL-NH2	409
JB10301		671	D	Ac-I:QSKKNVFTFGYFERLRAKL-NH2	410
JB10302	55	133	C	Ac-I:QSKKNVAVAGYFERLRAKL-NH2	258
JB10303	66	85	B	Ac-I:QSKKNVVDGYFERLRAKL-NH2	184
JB10304	54	231	C	Ac-I:QSKKNVVLGYFERLRAKL-NH2	259
JB10305		154	C	Ac-I:QSKKNVVOGYFERLRAKL-NH2	260
JB10306	50	89	B	Ac-I:QSKKNVVSFGYFERLRAKL-NH2	185
JB10307		108	C	Ac-I:QSKKNVYQGYFERLRAKL-NH2	261
JB10308		736	D	Ac-I:QSKKNVVFQYKERLRAKL-NH2	411
JB10309		565	D	Ac-I:QSKKNVVFQYERLRAKL-NH2	412
JB10310	66	146	C	Ac-I:QSKKNVVFQYFDRLRAKL-NH2	262
JB10311		>50000		Ac-I:QSKKNVVFQYFERLRAKN-NH2	748
JB10335		>50000		Ac-I:QSKKNVVFQYFERLRAK-NH2	749
JB10336		232	C	Ac-I:QSKKNVFAQYFDRLRAKL-OH	263
JB10337		32	A	Ac-I:QSKKNVVDGYFDRLRAKL-NH2	16
JB10338		32	A	Ac-I:QSKKNVVOGYFDRLRAKL-NH2	17
JB10339		46	A	Ac-I:QSKKNVVSQYFDRLRAKL-NH2	18
JB10340		68	B	Ac-I:QSKKNVYQYFDRLRAKL-NH2	186
JB10341		75	B	Ac-I:QSKKNVVFQYFDRLRAKL-NH2	187
JB10342	90	47	A	Ac-I:QSKKNVVDGYFERLRAKL-NH2	19
JB10343		83	B	Ac-I:QSKKNVVDGYFDRLRAKL-NH2	188
JB10372		313	D	Fam-I:QSKKNVVFQYFERLRAK-NH2	413
JB10373		97	B	Fam-AF:QSKKNVVFQYFERLRAK-NH2	189

도면32ac

사물 번호	% 억제 (JB1-0477에 비한)	IC50 평균 [mM]	친화도 클래스	서열	서열 번호
JB10374		25	A	Ac-FQSKDNVVFEGYERLRACL-NH2	20
JB10375	101	56	B	Ac-FQSKGNVVFEGYERLRACL-NH2	190
JB10376	32	254	D	Ac-FQSKKNAIVFEGYERLRACL-NH2	414
JB10377		146	C	Ac-FQSKKNQVFEGYERLRACL-NH2	264
JB10378		39	A	Ac-FQSKKNVVFEGYERLRACL-NH2	21
JB10379		27	A	Ac-FQSKKNVVTGYERLRACL-NH2	22
JB10380		81	B	Ac-FQSKKNVVFVGYERLRACL-NH2	191
JB10381	40	154	C	Ac-FQSPKNVVFEGYERLRACL-NH2	265
JB10385		1765	E	Ac-FQSKKNVVFEGYERLRACL-NH2	672
JB10386	42	526	D	Ac-FQSKKNPEVFEGYERLRACL-NH2	415
JB10388		51	B	Ac-FQSKKNVVFEGYERLRACL-NH2	192
JB10389		1165	E	Ac-FQSKKNVVFEGYERLRACL-NH2	673
JB10390		1393	E	Ac-FQSKKNVVFQFGYERLRACL-NH2	674
JB10391	22	107	C	Ac-FQSKKNVVFVGYERLRACL-NH2	266
JB10392		32	A	Ac-FQSKKNVVFHGYERLRACL-NH2	23
JB10393	87	56	B	Ac-FQSKKNVVFVKGYERLRACL-NH2	193
JB10394		48	A	Ac-FQSKKNVVFVMGYERLRACL-NH2	24
JB10395		31	A	Ac-FQSKKNVVFVNGYERLRACL-NH2	25
JB10396	28	80	B	Ac-FQSKKNVVFPGYERLRACL-NH2	194
JB10397		69	B	Ac-FQSKKNVVFVGYERLRACL-NH2	195
JB10398		69	B	Ac-FQSKKNVVFVGYEELLRACL-NH2	196
JB10399	-24	>185 >5000,000 >5000,000 >5000,000		Ac-FQSKKNVVFVGYEELLRACL-NH2	750

도면32ad

사물 번호	% 억제 (JBT-0477에 비한)	IC50 평균 [nM]	친화도 클래스	시열	시열 번호
JBT0400	40	216	C	Ac-FQSKKNVVFVGYFRLRAKL-NH2	267
JBT0401		359	D	Ac-FQSKKNVVFVGYFRLRAVL-NH2	416
JBT0406		210	C	Ac-Tids-FQSKKNVVFVGYFRLRAKL-NH2	268
JBT0471	93	29	A	Ac-FQSKGNVVFVTGYFRLRAKL-NH2	26
JBT0472	96	38	A	Ac-FQSKGNVVFVHGYPFRLRAKL-NH2	27
JBT0473	106	39	A	Ac-FQSKGNVVFVHGYPFRLRAKL-NH2	28
JBT0474	100	27	A	Ac-FQSKGNVVFVKGYFRLRAKL-NH2	29
JBT0475	106	25	A	Ac-FQSKGNVFEVGYFRLRAKL-NH2	30
JBT0476	56	23	A	Ac-FQSKGNVFDVGYFRLRAKL-NH2	31
JBT0477	99	32	A	Ac-FQSKDNNVFVDTGYFRLRAKL-NH2	32
JBT0478		29	A	Ac-FQSKDNNVFVTGYFRLRAKL-NH2	33
JBT0479		48	A	Ac-FQSKDNNVFVNGYPFRLRAKL-NH2	34
JBT0480		35	A	Ac-FQSKDNNVFVHGYPFRLRAKL-NH2	35
JBT0481		49	A	Ac-FQSKDNNVFVKGYFRLRAKL-NH2	36
JBT0482		38	A	Ac-FQSKDNNVFVEGYFRLRAKL-NH2	37
JBT0483	74	39	A	Ac-FQSKDNNVFVDTGYFRLRAKL-NH2	38
JBT0485		23	A	Ac-FQSKNNNVFVTGYFRLRAKL-NH2	39
JBT0486		40	A	Ac-FQSKNNNVFVNGYPFRLRAKL-NH2	40
JBT0487		40	A	Ac-FQSKNNNVFVHGYPFRLRAKL-NH2	41
JBT0488		29	A	Ac-FQSKNNNVFVKGYFRLRAKL-NH2	42
JBT0489		30	A	Ac-FQSKNNNVFVEGYFRLRAKL-NH2	43
JBT0490		42	A	Ac-FQSKQNNVFVTGYFRLRAKL-NH2	44
JBT0491		59	B	Ac-FQSKQNNVFVNGYPFRLRAKL-NH2	197
JBT0492		68	B	Ac-FQSKQNNVFVHGYPFRLRAKL-NH2	198
JBT0493		86	B	Ac-FQSKQNNVFVKGYFRLRAKL-NH2	199

도면32ae

시료 번호	시열	친화도 클래스	IC50 평균 [nM]	% 억제 (JBT-0477에 비한)	시열 번호
JBT0494	Ac-I-QSKQNVFVDGYFERLRAKL-NH2	A	48	74	45
JBT0495	Ac-I-QSKQNVFVEGYFERLRAKL-NH2	B	52		200
JBT0497	Ac-Nmf-QSKGNVFVEGYFERLRAKL-NH2	B	100		201
JBT0498	Ac-I-Q-Nms-KGNVFVEGYFERLRAKL-NH2	E	1512		675
JBT0499	Ac-I-QS-Nmk-GNVFVEGYFERLRAKL-NH2	B	74		202
JBT0500	Ac-I-QSK-Nmg-NVFEVGYFERLRAKL-NH2	A	24		46
JBT0501	Ac-I-QSKGN-Nmv-FVGYFERLRAKL-NH2	D	267		417
JBT0502	Ac-I-QSKGNV-Nmf-VGYFERLRAKL-NH2		>5000		751
JBT0503	Ac-I-QSKGNV-Nmv-FGYFERLRAKL-NH2	E	2038		676
JBT0504	Ac-I-QSKGNVF-Nmf-GYFERLRAKL-NH2	D	861		418
JBT0505	Ac-I-QSKGNVF-Nmg-YFERLRAKL-NH2	C	118		269
JBT0506	Ac-I-QSKGNVFVEG-Nmy-YFERLRAKL-NH2	F	3106		714
JBT0507	Ac-I-QSKGNVFVEGY-Nmf-ERLRAKL-NH2	E	2091		677
JBT0508	Ac-I-QSKGNVFVEGY-Nme-RLRAKL-NH2	E	1192		678
JBT0509	Ac-I-QSKGNVFVEGYE-Nmr-LRAKL-NH2		>5000		752
JBT0510	Ac-I-QSKGNVFVEGYFERL-Nmr-AKL-NH2		>5000		753
JBT0511	Ac-I-QSKGNVFVEGYFERL-Nmf-AKL-NH2		>5000		754
JBT0512	Ac-I-QSKGNVFVEGYFERL-Nma-KL-NH2	E	2218		679
JBT0513	Ac-I-QSKGNVFVEGYFERLRA-Nmk-L-NH2		>5000		755
JBT0514	Ac-I-QSKGNVFVEGYFERLRAK-Nmf-NH2	D	891		419
JBT0515	Ac-Bhf-QSKGNVFVEGYFERLRAKL-NH2	D	366		420
JBT0516	Ac-F-Bhg-SKGNVFVEGYFERLRAKL-NH2	E	1191		680
JBT0517	Ac-I-Q-Bhs-KGNVFVEGYFERLRAKL-NH2	D	781		421
JBT0518	Ac-I-QS-Bhk-GNVFVEGYFERLRAKL-NH2	D	767		422
JBT0519	Ac-I-QSK-Bal-NVFEVGYFERLRAKL-NH2	C	207		270

도면32af

시열 번호	% 억제 (JBT-047에 비한)	IC50 평균 [nM]	친화도 클래스	시열	시열 번호
JBT0520		188	C	Ac-FQSKG-Big-VFVFGYFERL.RAKL.NH2	271
JBT0521		>5000		Ac-FQSKGN-BU-FVFGYFERL.RAKL.NH2	756
JBT0522		1424	E	Ac-FQSKGNV-BHf-VFGYFERL.RAKL.NH2	681
JBT0523		>5000		Ac-FQSKGNVF-BU-FGYFERL.RAKL.NH2	757
JBT0524		1573	E	Ac-FQSKGNVF-BHf-GYFERL.RAKL.NH2	682
JBT0525		>5000		Ac-FQSKGNVF-Vf-BaL-YFERL.RAKL.NH2	758
JBT0526		>5000		Ac-FQSKGNVF-VfG-Bhv-lFERL.RAKL.NH2	759
JBT0527		1348	E	Ac-FQSKGNVF-VfG-BHf-lFERL.RAKL.NH2	683
JBT0528		107	C	Ac-FQSKGNVF-VfGYf-BfC-RL.RAKL.NH2	272
JBT0529		>5000		Ac-FQSKGNVF-VfGYfE-BHf-l.RAKL.NH2	760
JBT0530		1684	E	Ac-FQSKGNVF-VfGYfER-BHf-l.RAKL.NH2	684
JBT0531		93	B	Ac-FQSKGNVF-VfGYfERL-BHf-AKL.NH2	203
JBT0532		334	D	Ac-FQSKGNVF-VfGYfERL.R-BaL-KL.NH2	423
JBT0533		756	D	Ac-FQSKGNVF-VfGYfERL.RA-BHf-l.NH2	424
JBT0534		84	B	Ac-FQSKGNVF-VfGYfERL.RAK-BHf.NH2	204
JBT0535		1779	E	Ac-FQSKGNVF-VfGYfERL.Cf-l.RAKL.NH2	685
JBT0536		229	C	Ac-FQSKGNVF-VfGYfERL-Cf-l.RAKL.NH2	273
JBT0537		>5000		Ac-FQSKGNVF-VfGYfE-NfC-l.RAKL.NH2	761
JBT0538		534	D	Ac-FQSKGNVF-VfGYfERL-NfC-AKL.NH2	425
JBT0539	-1	542	D	Ac-FQSKKNVF-VfGYfERL.RAKL.NH2	426
JBT0540	3	479	D	Ac-FQSKKNVF-VfGYfERL.RAKL.NH2	427
JBT0541	14	292	D	Ac-FQSKKNVF-VfGYfERL.RAKL.NH2	428
JBT0542	14	129	C	Ac-FQSGKNVF-VfGYfERL.RAKL.NH2	274
JBT0543	67	184	C	Ac-FQSKKGVF-VfGYfERL.RAKL.NH2	275
JBT0544	-7	746	D	Ac-FQSKKNGVF-VfGYfERL.RAKL.NH2	429

32ag면도

제품 번호	% 억제 (JBT-047에 비한)	IC50 평균 [mM]	친화도 클래스	시험	시험 번호
JBT0545	-19	1780	E	Ac-FQSKKNVGFGEYFRLRAKL-NH2	686
JBT0546	-15	>5000		Ac-FQSKKNVGFGEYFRLRAKL-NH2	762
JBT0547	-18	>5000		Ac-FQSKKNVVEFGYFRLRAKL-NH2	763
JBT0548	4	885	D	Ac-FQSKKNVVEFGYGERLRAKL-NH2	430
JBT0549	35	572	D	Ac-FQSKKNVVEFGYGERLRAKL-NH2	431
JBT0550	-14	>5000		Ac-FQSKKNVVEGYFGLRAKL-NH2	764
JBT0551	-22	1640	E	Ac-FQSKKNVVEGYFERGRAKL-NH2	687
JBT0552	10	591	D	Ac-FQSKKNVVEGYFERLRAKL-NH2	432
JBT0553	-19	1101	E	Ac-FQSKKNVVEGYFERLRAKL-NH2	688
JBT0554	-5	314	D	Ac-FQSKKNVVEGYFERLRAKL-NH2	433
JBT0555	8	350	D	Ac-FQSKKNVVEGYFERLRAKL-NH2	434
JBT0556	2	336	D	Ac-FQSKKNVVEGYFERLRAKL-NH2	435
JBT0557	27	245	C	Ac-FQSKKNVVEGYFERLRAKL-NH2	276
JBT0558	44	125	C	Ac-FQSKKNVVEGYFERLRAKL-NH2	277
JBT0559	23	203	C	Ac-FQSKKNVVEGYFERLRAKL-NH2	278
JBT0560	2	688	D	Ac-FQSKKNVVEGYFERLRAKL-NH2	436
JBT0561	7	653	D	Ac-FQSKKNVVEGYFERLRAKL-NH2	437
JBT0562	10	413	D	Ac-FQSKKNVVEGYFERLRAKL-NH2	438
JBT0563	-6	1151	E	Ac-FQSKKNVVEGYFERLRAKL-NH2	689
JBT0564	69	95	B	Ac-FQSKKNVVEGYFERLRAKL-NH2	205
JBT0565	-5	383	D	Ac-FQSKKNVVEGYFERLRAKL-NH2	439
JBT0566	-7	3310	F	Ac-FQSKKNVVEGYFERLRAKL-NH2	715
JBT0567	51	225	C	Ac-FQSKKNVVEGYFERLRAKL-NH2	279
JBT0568	49	147	C	Ac-FQSKKNVVEGYFERLRAKL-NH2	280
JBT0569	13			Ac-FQSKKNVVEGYFERLRAKL-NH2	765

도면32ah

시료 번호	IC50 평균 [nM]	친화도 클래스	서열	시료 번호
JBT-0477에 비한)				
JBT0570	4	>5000	Ac-IFESKKNVFVFGYFERLRAKL-NH2	766
JBT0571	4	>5000	Ac-IFQPKKNVFVEGYFERLRAKL-NH2	767
JBT0572	12	>5000	Ac-IFQSFKNVFVEGYFERLRAKL-NH2	768
JBT0573	5	1370	Ac-IFQSFNVFVEGYFERLRAKL-NH2	690
JBT0574	-8	>5000	Ac-IFQSKKFVVEGYFERLRAKL-NH2	769
JBT0575	3	578	Ac-IFQSKKNVFVEGYFERLRAKL-NH2	440
JBT0576	12	>1666	Ac-IFQSKKNVFVEFYFERLRAKL-NH2	770
JBT0577	14	>5000	Ac-IFQSKKNVFVEGYFERLRAKL-NH2	771
JBT0578	58	292	Ac-IFQSKKNVFVEGYFERLRAKL-NH2	441
JBT0579	4	>5000	Ac-IFQSKKNVFVEGYFERLRAKL-NH2	772
JBT0580	12	>5000	Ac-IFQSKKNVFVEGYFERLRAKL-NH2	773
JBT0581	17	>5000	Ac-IFQSKKNVFVEGYFERLRAKL-NH2	774
JBT0582	45	>5000	Ac-IFQSKKNVFVEGYFERLRAKL-NH2	691
JBT0583	13	>5000	Ac-IFQSKKNVFVEGYFERLRAKL-NH2	775
JBT0584	50	401	Ac-IFQSKKNVFVEGYFERLRAKL-NH2	442
JBT0585	10	609	Ac-IFQSKKNVFVEGYFERLRAKL-NH2	443
JBT0586	5	>1667	Ac-IFQSKKNVFVEGYFERLRAKL-NH2	776
JBT0587	50	172	Ac-IFQSKKNVFVEGYFERLRAKL-NH2	281
JBT0588	5	>5000	Ac-IFQSKKNVFVEGYFERLRAKL-NH2	777
JBT0589	58	241	Ac-IFQSKKNVFVEGYFERLRAKL-NH2	282
JBT0590	2	>5000	Ac-IFQSKKNVFVEGYFERLRAKL-NH2	779
JBT0591	1	>5000	Ac-IFQSKKNVFVEGYFERLRAKL-NH2	780
JBT0592	-1	>5000	Ac-IFQSKKNVFVEGYFERLRAKL-NH2	716
JBT0593	6	2982	Ac-IFQSKKNVFVEGYFERLRAKL-NH2	781
JBT0594	-1	>5000	Ac-IFQSKKNVFVEGYFERLRAKL-NH2	

도면32ai

시료 번호	% 억제 (JBT-047에 비한)	IC50 평균 [nM]	친화도 클래스	시열	시열 번호
JBT0595	10	3557	F	Ac-FQSKKNVFVEGYDERLRAKL-NH2	717
JBT0596	1	549	D	Ac-FQSKKNVFVEGYDEDLRAKL-NH2	444
JBT0597	-5	>5000		Ac-FQSKKNVFVEGYFERDRAKL-NH2	782
JBT0598	-2	>5000		Ac-FQSKKNVFVEGYFERLDRAKL-NH2	783
JBT0599	30	301	D	Ac-FQSKKNVFVEGYFERLRDRL-NH2	445
JBT0600	-12	3232	F	Ac-FQSKKNVFVEGYFERLRADL-NH2	718
JBT0601	-1	1531	E	Ac-LQSKKNVFVEGYFERLRAKL-NH2	692
JBT0602	8	>1000 >1000		Ac-FLSKKNVFVEGYFERLRAKL-NH2	784
		>5000,000			
JBT0603	4	>5000		Ac-FQLKKNVFVEGYFERLRAKL-NH2	785
JBT0604	11	>1668		Ac-FQSLKNVFVEGYFERLRAKL-NH2	786
JBT0605	18	>1669		Ac-FQSKLNVFVEGYFERLRAKL-NH2	787
JBT0606	1	>5000		Ac-FQSKLVFVEGYFERLRAKL-NH2	788
JBT0607	19	718	D	Ac-FQSKKNLVEGYFERLRAKL-NH2	446
JBT0608	4	2673	F	Ac-FQSKKNVLEGYFERLRAKL-NH2	719
JBT0609	0	>5000		Ac-FQSKKNVLEGYFERLRAKL-NH2	789
JBT0610	-4	>5000		Ac-FQSKKNVVELGYFERLRAKL-NH2	790
JBT0611	-5	>5000		Ac-FQSKKNVVEGLFERLRAKL-NH2	791
JBT0612	9	1378	E	Ac-FQSKKNVFVEGYLERLRAKL-NH2	693
JBT0613		237	C	Ac-FQSKGNVVEGYFERLRAKL-OH	283
JBT0614		2575	F	H-FQSKGNVVEGYFERLRAKL-NH2	720
JBT0615		249	C	H-FQSKGNVVEGYFERLRAKL-NH2	284
JBT0616		124	C	H-GSFQSKKNVVDGYFERLRAKL-OH	285
JBT0636		24	A	Ac-FQSK-Nmg-NVVDGYFARLRAKL-NH2	47

32aj면도

시료 번호	시열	친화도 클래스	IC50 평균 [nM]	% 억제 (JB1-0477에 비한)	시료 번호
JB10651	Ac-FQSKGNVHVKGYYERLRAKL-NH2	A	18		48
JB10652	Ac-FQSKGNVHVDGYFERLRAKL-NH2	A	36	103	49
JB10653	Ac-FQSPGNVHVKGYYERLRAKL-NH2	A	23		50
JB10654	Ac-FQSPGNVHVDGYFERLRAKL-NH2	A	16		51
JB10655	Ac-FQSKGNIFVFGYYERLRAKL-NH2	A	38		52
JB10656	Ac-FQSKGNLFFVFGYYERLRAKL-NH2	C	155		286
JB10657	Ac-FQSKGNVHFGYYERLRAKL-NH2	C	142		287
JB10658	Ac-FQSKGNVHFGYYERLRAKL-NH2	E	1062		694
JB10663	Ac-FQSKaNVVFGYYERLRAKL-NH2	A	45		53
JB10668	Ac-FQSKaNVVFGYYERLRAKL-NH2	A	49		54
JB10681	Ac-FQSK-Nmg-AVFVFGYFARLRAKL-NH2	B	68		206
JB10683	Ac-AQSKKNVVFVFGYYERLRAKL-NH2	A	25		55
JB10691	Ac-FQSKKNVVFVFGYYERLRAKL-NH2	F		32	721
JB10692	Ac-FASKKNVVFVFGYYERLRAKL-NH2	E		49	695
JB10693	Ac-FQAKKNVVFVFGYYERLRAKL-NH2	D		60	447
JB10694	Ac-FQSAKNVVFVFGYYERLRAKL-NH2	D		58	448
JB10695	Ac-FQSKANVVFVFGYYERLRAKL-NH2	D		52	449
JB10696	Ac-FQSKKAVVFGYYERLRAKL-NH2	C	101	94	288
JB10697	Ac-FQSKGNVVDGYFERL-Dap-AKL-NH2	A	47		56
JB10698	Ac-FQSKKNVAVFGYYERLRAKL-NH2			-1	792
JB10700	Ac-FQSKGNVVDGYFERL-Nva-AKL-NH2	A	37		57
JB10701	Ac-FQSKKNVVFVAYFERLRAKL-NH2	A	26		58
JB10702	Ac-FQSKKNVVFVAYFERLRAKL-NH2			29	793
JB10703	Ac-FQSKKNVVFVAYFERLRAKL-NH2			10	794
	Ac-FQSKKNVVFVAYFERLRAKL-NH2			22	795

32ak면도

사물 번호	% 억제 (JB1-0477에 비한)	IC50 평균 [mM]	친화도 클래스	서열	서열 번호
JB10704	96	116	C	Ac1FQSKKNVVFEGYFARLRAKL-NH2	289
JB10705	22			Ac1FQSKKNVVFEGYFEALRAKL-NH2	796
JB10706	10			Ac1FQSKKNVVFEGYFRRARAKL-NH2	797
JB10707	50	502	D	Ac1FQSKKNVVFEGYFERLAAKL-NH2	450
JB10708		30	A	Ac1FQSKaNVFVAGYFERLRAKL-NH2	59
JB10709	6			Ac1FQSKKNVVFEGYFERLRAAL-NH2	798
JB10710	-2			Ac1FQSKKNVVFEGYFERLRAKA-NH2	799
JB10711	2			Ac1FQSKKNVVFEGYFERLRAKL-NH2	800
JB10712	19			Ac1FQSKKNVVFEGYFERLRAKL-NH2	801
JB10713	5	679	D	Ac1FQPKKNVVFEGYFERLRAKL-NH2	451
JB10714		23	A	Ac1FQSKaAVFDGYFARLRAKL-NH2	60
JB10715	40		F	Ac1FQSKPNVVFEGYFERLRAKL-NH2	722
JB10716	42		E	Ac1FQSKKPVVFEGYFERLRAKL-NH2	696
JB10717		24	A	Ac1FQSK-Nmg-NVFVDGYFERLRAKL-NH2	61
JB10718	14			Ac1FQSKKNVVFEGYFERLRAKL-NH2	802
JB10719	31		F	Ac1FQSKKNVVFEGYFERLRAKL-NH2	723
JB10720		27	A	Ac1FQSK-Nmg-NVFVTGYFARLRAKL-NH2	62
JB10721	29			Ac1FQSKKNVVFEPYFERLRAKL-NH2	803
JB10722	12			Ac1FQSKKNVVFEGYFERLRAKL-NH2	804
JB10723	3			Ac1FQSKKNVVFEGYPERLRAKL-NH2	805
JB10724	50		D	Ac1FQSKKNVVFEGYFERLRAKL-NH2	452
JB10725	21			Ac1FQSKKNVVFEGYFERLRAKL-NH2	806
JB10726	2		D	Ac1FQSKKNVVFEGYFRRPRAKL-NH2	453
JB10727	-1			Ac1FQSKKNVVFEGYFERLPAKL-NH2	807
JB10728	12			Ac1FQSKKNVVFEGYFERLRPKL-NH2	808

도면32a1

시료 번호	% 억제 (JBT-0477에 비한)	IC50 평균 [mM]	친화도 클래스	시열	시열 번호
JBT0729	4			Ac-FQSKKNVVFEGYERLRAKL-NH2	809
JBT0730	3		D	Ac-FQSKKNVVFEGYERLRAKL-NH2	454
JBT0731	21			Ac-SQSKKNVVFEGYERLRAKL-NH2	810
JBT0732		20	A	Ac-FQSKGNVFDGYFERL-Hct-AKL-NH2	63
JBT0733		26	A	Ac-FQSKGNVFDGYFERL-Har-AKL-NH2	64
JBT0734	26		D	Ac-FQSKSNVVFEGYERLRAKL-NH2	455
JBT0735	19			Ac-FQSKSNVVFEGYERLRAKL-NH2	811
JBT0736	68		D	Ac-FQSKKSVVFEGYERLRAKL-NH2	456
JBT0737	34		F	Ac-FQSKKNSVFEGYERLRAKL-NH2	724
JBT0738	20			Ac-FQSKKNVSVFEGYERLRAKL-NH2	812
JBT0739		31	A	Ac-FQSKGNVFDGYFERL-Opb-AKL-NH2	65
JBT0740	113	18	A	Ac-FQSKGNVFDGYFERL-Alb-AKL-NH2	66
JBT0741	44		E	Ac-FQSKKNVVFSGYERLRAKL-NH2	697
JBT0742	12			Ac-FQSKKNVVFSGYERLRAKL-NH2	813
JBT0743	5			Ac-FQSKKNVVFEGYSERLRAKL-NH2	814
JBT0744	66		D	Ac-FQSKKNVVFEGYSERLRAKL-NH2	457
JBT0745	9			Ac-FQSKKNVVFEGYSERLRAKL-NH2	815
JBT0746	-1			Ac-FQSKKNVVFEGYERLRAKL-NH2	816
JBT0747	19			Ac-FQSKKNVVFEGYERLSAKL-NH2	817
JBT0748	43		D	Ac-FQSKKNVVFEGYERLRSKL-NH2	458
JBT0749	19		D	Ac-FQSKKNVVFEGYERLRASL-NH2	459
JBT0750	10			Ac-FQSKKNVVFEGYERLRAS-NH2	818
JBT0751	33		F	Ac-FQSKKNVVFEGYERLAKL-NH2	725
JBT0752	46		E	Ac-FQSKKNVVFEGYERLRKL-NH2	698
JBT0753	26		D	Ac-FQSKKNVVFEGYERLRAKL-NH2	460

32am면도

사물 번호	% 억제 (JB1-0477에 비한)	IC50 평균 [nM]	친화도 클래스	시열	시열 번호
JB10754		33	A	Ac-IQSK-Nmg-AVFVTCGYEARLRAKL-NH2	67
JB10755	34	>5000	F	Ac-IQSKKNVVFEGYFERLRAKL-NH2	726
JB10756	35	>5000	F	Ac-IqSKKNVVFEGYFERLRAKL-NH2	727
JB10757		2212	E	Ac-IQSKKNVVFEGYFERLRAKL-NH2	699
JB10758	52	101	C	Ac-IQSKKNVVFEGYFERLRAKL-NH2	290
JB10759	78	52	B	Ac-IQSKKNVVFEGYFERLRAKL-NH2	207
JB10760	37		F	Ac-IQSKKNVVFEGYFERLRAKL-NH2	728
JB10761	35		F	Ac-IQSKKNVVFEGYFERLRAKL-NH2	729
JB10762	37		F	Ac-IQSKKNVVFEGYFERLRAKL-NH2	730
JB10763	58	129	C	Ac-IQSKKNVVFEGYFERLRAKL-NH2	291
JB10764	53	296	D	Ac-IQSKKNVVFEGYFERLRAKL-NH2	461
JB10765		26	A	Ac-IQSKGNVVDGYFERL- ^{Leu} -AKI-NH2	68
JB10766	32		D	Ac-IQSKKNVVFEGYFERLRAKL-NH2	462
JB10767	40		E	Ac-IQSKKNVVFEGYFERLRAKL-NH2	700
JB10768	27		D	Ac-IQSKKNVVFEGYFERLRAKL-NH2	463
JB10769	22		D	Ac-IQSKKNVVFEGYFERLRAKL-NH2	464
JB10770	20			Ac-IQSKKNVVFEGYFERLRAKL-NH2	819
JB10771	29	423	D	Ac-IQSKKNVVFEGYFERLRAKL-NH2	465
JB10772	21			Ac-IQSKKNVVFEGYFERLRAKL-NH2	820
JB10773	21			Ac-IQSKKNVVFEGYFERLRAKL-NH2	821
JB10774	26			Ac-IQSKKNVVFEGYFERLRAKL-NH2	822
JB10775	73	22	A	Ac-IQSKGNVVTGYFERLRAKL-NH2	69
JB10776	51	82	B	Ac-IQSKGNVVTNGYFERLRAKL-NH2	208
JB10777	49	101	C	Ac-IQSKGNVVTNGYFERLRAKL-NH2	292
JB10778	68	66	B	Ac-IQSKGNVVTKGYFERLRAKL-NH2	209

도면32an

시험 번호	% 억제 (JBT-0477에 비한)	IC50 평균 [nM]	친화도 클래스	시험	시험 번호
JBT0779	51	71	B	Ac-FQSKGNVFVEGYFEDRLRAKL-NH2	210
JBT0780		44	A	Ac-FQSK-Nmg-NVFVGYFARLRAKL-NH2	70
JBT0781	82	63	B	Ac-FQSKGNVFVDGYFERLRAKL-NH2	211
JBT0782	44	>556	D	Ac-fgskknvfygyfertrakl-NH2	466
JBT0783	39	>556 >1666,670	D	Ac-lkarlrelygfvfnkksqf-NH2	467
JBT0784		>5000		Ac-FQSKKNVVFEGYFE-(오메가-페틸-R)-I-(오메가-페틸-R)-AKI-NH2	823
JBT0785		163	C	Ac-FQSKKNVVFEGYFERL-(오메가-페틸-R)-AKI-NH2	293
JBT0786		616	D	Ac-FQSKKNVVFEGYFE-(오메가-페틸-R)-I-RAKL-NH2	468
JBT0789		20	A	Ac-FQSK-Nmg-NVFVDGYFERL-Nic-AKI-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-FQACGNVFVDGYFERLRAKL-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-FQSKGNVFVDGYFERLRAKL-NH2	825
JBT0800	-2			Ac-FQSKGNVFVDGYFERLRAKL-NH2	826
JBT0801	64		D	Ac-FQSKGNVFVDGYAEFLRAKL-NH2	472
JBT0802	101	35	A	Ac-FQSKGNVFVDGYFARLRAKL-NH2	73
JBT0803	7		D	Ac-FQSKGNVFVDGYFEALRAKL-NH2	473
JBT0804	10			Ac-FQSKGNVFVDGYFERARAKI-NH2	827

도면32a0

시료 번호	% 억제 (JBT-0477에 비한)	IC50 평균 [nM]	친화도 클래스	서열	시료 번호
JBT0805	98	64	B	Ac-FQSKGNVFVDGYFERLAAKL-NH2	212
JBT0806		42	A	Ac-FQSK-Nmg-NVFVAGYFARLRACL-NH2	74
JBT0807	-6			Ac-FQSKGNVFVDGYFERLRAAL-NH2	828
JBT0808	39		F	Ac-FQSKGNVFVDGYFERLRKA-NH2	732
JBT0809	10			Ac-DQSKGNVFVDGYFERLRACL-NH2	829
JBT0810	-1			Ac-FQSKGNVFVDGYFERLRACL-NH2	830
JBT0811	69		D	Ac-FQDKGNVFVDGYFERLRACL-NH2	474
JBT0812	81		C	Ac-FQSDGNVFVDGYFERLRACL-NH2	296
JBT0813	76		D	Ac-FQSKGNDVVDGYFERLRACL-NH2	475
JBT0814	4			Ac-FQSKGNVDVDGYFERLRACL-NH2	831
JBT0815	2			Ac-FQSKGNVFVDGYFERLRACL-NH2	832
JBT0816	1			Ac-FQSKGNVFVDGYFERLRACL-NH2	833
JBT0817	5			Ac-FQSKGNVFVDGYFERLRACL-NH2	834
JBT0818	3		D	Ac-FQSKGNVFVDGYFERLRACL-NH2	476
JBT0819	31		D	Ac-FQSKGNVFVDGYDERLRACL-NH2	477
JBT0820	0			Ac-FQSKGNVFVDGYFERLRACL-NH2	835
JBT0821	-3			Ac-FQSKGNVFVDGYFERDRACL-NH2	836
JBT0822	51		D	Ac-FQSKGNVFVDGYFERLRACL-NH2	478
JBT0823	82		C	Ac-FQSKGNVFVDGYFERLRDRL-NH2	297
JBT0824	3			Ac-FQSKGNVFVDGYFERLRADL-NH2	837
JBT0825	9			Ac-FQSKGNVFVDGYFERLRADL-NH2	838
JBT0826	22		D	Ac-FQSKGNVFVDGYFERLRACL-NH2	479
JBT0827	-3			Ac-FQSKGNVFVDGYFERLRACL-NH2	839
JBT0828	90		C	Ac-FQEKGNVFVDGYFERLRACL-NH2	298
JBT0829	104		A	Ac-FQSEGNVFVDGYFERLRACL-NH2	75

도면32ap

사물 번호	% 억제 (JB-T-0477에 비한)	IC50 평균 [nM]	친화도 클래스	서열	서열 번호
JB10830	75		D	Ac-FQSKGEVFVDGYFEERLRAKL-NH2	480
JB10831	18		D	Ac-FQSKGNEFVDGYFEERLRAKL-NH2	481
JB10832	-5			Ac-FQSKGNVEVDGYFEERLRAKL-NH2	840
JB10833	11			Ac-FQSKGNVFEDGYFEERLRAKL-NH2	841
JB10834	13			Ac-FQSKGNVEVDGYFEERLRAKL-NH2	842
JB10835	5			Ac-FQSKGNVFVDGEFEERLRAKL-NH2	843
JB10836	51		D	Ac-FQSKGNVEVDGYFEERLRAKL-NH2	482
JB10837		87	B	Ac-FQSK-Nmg-NVFVTGYFEERLRAKL-NH2	213
JB10838	4		D	Ac-FQSKGNVEVDGYFEERLRAKL-NH2	483
JB10839	4			Ac-FQSKGNVFVDGYFEERERAKL-NH2	844
JB10840	71		D	Ac-FQSKGNVEVDGYFEERLEAKL-NH2	484
JB10841	82		C	Ac-FQSKGNVFVDGYFEERLREKL-NH2	299
JB10842	3			Ac-FQSKGNVEVDGYFEERLRAEL-NH2	845
JB10843	21			Ac-FQSKGNVFVDGYFEERLRAKE-NH2	846
JB10844		112	C	Ac-FQSKaNVFVDGYFEERLRAKL-NH2	300
JB10845	5		D	Ac-FQSKGNVFVDGYFEERLRAKL-NH2	485
JB10846	66		D	Ac-FQSKGNVFVDGYFEERLRAKL-NH2	486
JB10847	82		C	Ac-FQSKGNVFVDGYFEERLRAKL-NH2	301
JB10848	69		D	Ac-FQSKGFVFVDGYFEERLRAKL-NH2	487
JB10849	48		D	Ac-FQSKGNEFVDGYFEERLRAKL-NH2	488
JB10850		150	C	Ac-FQSKaAVFVAGYFARLRAKL-NH2	302
JB10851	6		D	Ac-FQSKGNVFEDGYFEERLRAKL-NH2	489
JB10852	18			Ac-FQSKGNVFVDGYFEERLRAKL-NH2	847
JB10853	13			Ac-FQSKGNVFVDGYFEERLRAKL-NH2	848
JB10854		593	D	Ac-FQSKaAVFVAGYFARL-NIc-AKL-NH2	490

도면32a_q

제품 번호	% 억제 (JBT-047에 비한)	IC ₅₀ 평균 [nM]	친화도 클래스	서열	서열 번호
JBT0855	57		D	Ac-FQSKGNVFVDGYFERLR AKL-NH ₂	491
JBT0856	4		D	Ac-FQSKGNVFVDGYFERLR AKL-NH ₂	492
JBT0857	13			Ac-FQSKGNVFVDGYFERLR AKL-NH ₂	849
JBT0858	85		C	Ac-FQSKGNVFVDGYFERLR AKL-NH ₂	303
JBT0859	81		C	Ac-FQSKGNVFVDGYFERLR AKL-NH ₂	304
JBT0860	1			Ac-FQSKGNVFVDGYFERLR AKL-NH ₂	850
JBT0861	94		C	Ac-FQSKGNVFVDGYFERLR AKL-NH ₂	305
JBT0862	23			Ac-FQSKGNVFVDGYFERLR AKL-NH ₂	851
JBT0863	7		D	Ac-FQSKGNVFVDGYFERLR AKL-NH ₂	493
JBT0864	60		D	Ac-FQSKGNVFVDGYFERLR AKL-NH ₂	494
JBT0865	69		D	Ac-FQSKGNVFVDGYFERLR AKL-NH ₂	495
JBT0866	79		D	Ac-FQSKGNVFVDGYFERLR AKL-NH ₂	496
JBT0867	2			Ac-FQSKGNVFVDGYFERLR AKL-NH ₂	852
JBT0868	4			Ac-FQSKGNVFVDGYFERLR AKL-NH ₂	853
JBT0869	-1			Ac-FQSKGNVFVDGYFERLR AKL-NH ₂	854
JBT0870		57	B	Ac-FQSKaAVFVIGYFARLR AKL-NH ₂	214
JBT0871	1			Ac-FQSKGNVFVDGYFERLR AKL-NH ₂	855
JBT0872	24		D	Ac-FQSKGNVFVDGYFERLR AKL-NH ₂	497
JBT0873	64		D	Ac-FQSKGNVFVDGYFERLR AKL-NH ₂	498
JBT0874	1		D	Ac-FQSKGNVFVDGYFERLR AKL-NH ₂	499
JBT0875	-5			Ac-FQSKGNVFVDGYFERLR AKL-NH ₂	856
JBT0876	75		D	Ac-FQSKGNVFVDGYFERLR AKL-NH ₂	500
JBT0877	50		E	Ac-FQSKGNVFVDGYFERLR AKL-NH ₂	701
JBT0878	9			Ac-FQSKGNVFVDGYFERLR AKL-NH ₂	857
JBT0879	29			Ac-FQSKGNVFVDGYFERLR AKL-NH ₂	858

도면32ar

사물 번호	% 억제 (JBT-0477에 비한)	IC50 평균 [nM]	친화도 클래스	서열	서열 번호
JBT0880	56		D	Ac-IQSKGNVFVDGYFEERLRAKL-NH2	501
JBT0881	-2			Ac-FHSKGNVFVDGYFEERLRAKL-NH2	859
JBT0882	85		C	Ac-IQHKGNVFVDGYFEERLRAKL-NH2	306
JBT0883	93		C	Ac-IQHGKNVFVDGYFEERLRAKL-NH2	307
JBT0884	71		D	Ac-IQSKGHHVFVDGYFEERLRAKL-NH2	502
JBT0885	50		D	Ac-IQSKGNHFVDGYFEERLRAKL-NH2	503
JBT0886		50	B	Ac-IQSKANVFVDGYFARLRAKL-NH2	215
JBT0887	0			Ac-IQSKGNVFVDGYFEERLRAKL-NH2	860
JBT0888	35		D	Ac-IQSKGNVFVDHYFEERLRAKL-NH2	504
JBT0889	-8			Ac-IQSKGNVFVDGHHFEERLRAKL-NH2	861
JBT0890	71		D	Ac-IQSKGNVFVDGYHEERLRAKL-NH2	505
JBT0891	93		C	Ac-IQSKGNVFVDGYFEERLRAKL-NH2	308
JBT0892	-8			Ac-IQSKGNVFVDGYTEHILRAKL-NH2	862
JBT0893	-10			Ac-IQSKGNVFVDGYFEERLRAKL-NH2	863
JBT0894	103	42	A	Ac-IQSKGNVFVDGYTEERLHAKL-NH2	76
JBT0895	69		D	Ac-IQSKGNVFVDGYFEERLRHKL-NH2	506
JBT0896	-12			Ac-IQSKGNVFVDGYTEERLRAHL-NH2	864
JBT0897	71		D	Ac-IQSKGNVFVDGYFEERLRAKH-NH2	507
JBT0898	87		C	Ac-IQSKGNVFVDGYTEERLRAKL-NH2	309
JBT0899	7		D	Ac-FHSKGNVFVDGYFEERLRAKL-NH2	508
JBT0900	88		C	Ac-IQIKGNVFVDGYTEERLRAKL-NH2	310
JBT0901	96		A	Ac-FQISGNVFVDGYFEERLRAKL-NH2	77
JBT0902	94		C	Ac-IQSKGIVFVDGYTEERLRAKL-NH2	311
JBT0903	97		A	Ac-FQSKGNHFVDGYFEERLRAKL-NH2	78
JBT0904	2			Ac-IQSKGNVFVDGYTEERLRAKL-NH2	865

도면32as

제품 번호	% 억제 (JBT-0477에 비한)	IC50 평균 [nM]	친화도 클래스	서열	서열 번호
JBT0905	58		D	Ac-FQSKGNVFIDGYFERLR AKL-NH2	509
JBT0906	-2			Ac-FQSKGNVFVDIYFERLR AKL-NH2	866
JBT0907	1			Ac-FQSKGNVFVDGIYFERLR AKL-NH2	867
JBT0908	39		D	Ac-FQSKGNVFVDGYFERLR AKL-NH2	510
JBT0909	92		C	Ac-FQSKGNVFVDGYFERLR AKL-NH2	312
JBT0910	0			Ac-FQSKGNVFVDGYFERLR AKL-NH2	868
JBT0911	15			Ac-FQSKGNVFVDGYFERLR AKL-NH2	869
JBT0912	104	57	B	Ac-FQSKGNVFVDGYFERLR AKL-NH2	216
JBT0913	65		D	Ac-FQSKGNVFVDGYFERLR AKL-NH2	511
JBT0914	-7			Ac-FQSKGNVFVDGYFERLR AKL-NH2	870
JBT0915	80		D	Ac-FQSKGNVFVDGYFERLR AKL-NH2	512
JBT0916	59		D	Ac-FQSKGNVFVDGYFERLR AKL-NH2	513
JBT0917	-3			Ac-FQSKGNVFVDGYFERLR AKL-NH2	871
JBT0918	65		D	Ac-FQSKGNVFVDGYFERLR AKL-NH2	514
JBT0919		42	A	Ac-FQSKGNVFVDGYFERLR AKL-NH2	79
JBT0920	115	23	A	Ac-FQSKGNVFVDGYFERLR AKL-NH2	80
JBT0921	11			Ac-FQSKGNVFVDGYFERLR AKL-NH2	872
JBT0922	-4			Ac-FQSKGNVFVDGYFERLR AKL-NH2	873
JBT0923	3		D	Ac-FQSKGNVFVDGYFERLR AKL-NH2	515
JBT0924	17			Ac-FQSKGNVFVDGYFERLR AKL-NH2	874
JBT0925	-6			Ac-FQSKGNVFVDGYFERLR AKL-NH2	875
JBT0926	20		D	Ac-FQSKGNVFVDGYFERLR AKL-NH2	516
JBT0927	-8			Ac-FQSKGNVFVDGYFERLR AKL-NH2	876
JBT0928	4			Ac-FQSKGNVFVDGYFERLR AKL-NH2	877
JBT0929	107	29	A	Ac-FQSKGNVFVDGYFERLR AKL-NH2	81

도면32at

제품 번호	% 억제 (JBT-047에 비한)	IC50 평균 [nM]	친화도 클래스	서열	서열 번호
JBT0930	44		E	Ac-FQSKGNVFVDGYFERLRAKL-NH2	702
JBT0931		33	A	Ac-FQSKGNVFVDGYFERL-Flag-AKL-NH2	82
JBT0932	47		E	Ac-FQSKGNVFVDGYFERLRAKK-NH2	703
JBT0933	75		D	Ac-FQSKGNVFVDGYFERLRAKL-NH2	517
JBT0934	-7			Ac-FQSKGNVFVDGYFERLRAKL-NH2	878
JBT0935	72		D	Ac-FQSKGNVFVDGYFERLRAKL-NH2	518
JBT0936	97	41	A	Ac-FQSKGNVFVDGYFERLRAKL-NH2	83
JBT0937	90		C	Ac-FQSKGNVFVDGYFERLRAKL-NH2	313
JBT0938	44		D	Ac-FQSKGNVFVDGYFERLRAKL-NH2	519
JBT0939	27			Ac-FQSKGNVFVDGYFERLRAKL-NH2	879
JBT0940	4			Ac-FQSKGNVFVDGYFERLRAKL-NH2	880
JBT0941	28		D	Ac-FQSKGNVFVDGYFERLRAKL-NH2	520
JBT0942	4		D	Ac-FQSKGNVFVDGYFERLRAKL-NH2	521
JBT0943	83		C	Ac-FQSKGNVFVDGYFERLRAKL-NH2	314
JBT0944	103		A	Ac-FQSKGNVFVDGYFERLRAKL-NH2	84
JBT0945	1		D	Ac-FQSKGNVFVDGYFERLRAKL-NH2	522
JBT0946		38	A	Ac-FQSKGNVFVDGYFERL-Flag-AKL-NH2	85
JBT0947	105		A	Ac-FQSKGNVFVDGYFERLRAKL-NH2	86
JBT0948	108	46	A	Ac-FQSKGNVFVDGYFERLRAKL-NH2	87
JBT0949	2			Ac-FQSKGNVFVDGYFERLRAKL-NH2	881
JBT0950		73	B	Ac-FQSKGNVFVDGYFERLRAKL-NH2	217
JBT0951	97		A	Ac-FQSKGNVFVDGYFERLRAKL-NH2	88
JBT0953	109	43	A	Ac-FQSKGNVFVDGYFERLRAKL-NH2	89
JBT0956	27			Ac-FQSKGNVFVDGYFERLRAKL-NH2	882
JBT0961	77		D	Ac-FQSKGNVFVDGYFERLRAKL-NH2	523

도면32au

시료 번호	% 억제 (JBT-0477에 비한)	IC ₅₀ 평균 [nM]	친화도 클래스	시열	시열 번호
JBT0962	107	40	A	Ac-FQSKGNVFDGYEMRLRAKL-NH2	90
JBT0964	28			Ac-FQSKGNVFDGYFERMRAKL-NH2	883
JBT0966	100		A	Ac-FQSKGNVFDGYFERLRMKL-NH2	91
JBT0969	65		D	Ac-NQSKGNVFDGYFERLRACL-NH2	524
JBT0970	7		D	Ac-FNSKGNVFDGYFERLRACL-NH2	525
JBT0971	83		C	Ac-FQNKGNVFDGYFERLRACL-NH2	315
JBT0972	94		C	Ac-FQSKGNVFDGYFERLRACL-NH2	316
JBT0973		37	A	Ac-FQSKGNVFDGYFERL-Cla-AKL-NH2	92
JBT0974	29			Ac-FQSKGNVFDGYFERLRACL-NH2	884
JBT0975	-3			Ac-FQSKGNVFDGYFERLRACL-NH2	885
JBT0976	-2			Ac-FQSKGNVFDGYFERLRACL-NH2	886
JBT0977	15			Ac-FQSKGNVFDGYFERLRACL-NH2	887
JBT0978	-10			Ac-FQSKGNVFDGYFERLRACL-NH2	888
JBT0979	44		D	Ac-FQSKGNVFDGYFERLRACL-NH2	526
JBT0980	93	40	A	Ac-FQSKGNVFDGYFERLRACL-NH2	93
JBT0982	-2			Ac-FQSKGNVFDGYFERNRACL-NH2	889
JBT0983	81		C	Ac-FQSKGNVFDGYFERLRACL-NH2	317
JBT0984	100	34	A	Ac-FQSKGNVFDGYFERLRACL-NH2	94
JBT0985	4			Ac-FQSKGNVFDGYFERLRACL-NH2	890
JBT0986	32		F	Ac-FQSKGNVFDGYFERLRACL-NH2	733
JBT0987	27			Ac-FQSKGNVFDGYFERLRACL-NH2	891
JBT0988	0			Ac-FQSKGNVFDGYFERLRACL-NH2	892
JBT0989	5			Ac-FQSKGNVFDGYFERLRACL-NH2	893
JBT0990	106	33	A	Ac-FQSKGNVFDGYFERLRACL-NH2	95
JBT0991	5			Ac-FQSKGNVFDGYFERLRACL-NH2	894

32av면도

시료 번호	IC50 평균 [nM]	친화도 클래스	시열	시열 번호
JBT10992	65	D	Ac-FOSKGNPFVDGYFEERLRAKL-NH2	527
JBT10993	1		Ac-FOSKGNVFPDGYFEERLRAKL-NH2	895
JBT10994	2		Ac-FOSKGNVFPDGYFEERLRAKL-NH2	896
JBT10995	4	D	Ac-FOSKGNVFPDGYFEERLRAKL-NH2	528
JBT10996	3		Ac-FOSKGNVFPDGYFEERLRAKL-NH2	897
JBT10997	8	D	Ac-FOSKGNVFPDGYFEERLRAKL-NH2	529
JBT10998	48	D	Ac-FOSKGNVFPDGYFEERLRAKL-NH2	530
JBT10999	3	D	Ac-FOSKGNVFPDGYFEERLRAKL-NH2	531
JBT1000	3		Ac-FOSKGNVFPDGYFEERLRAKL-NH2	898
JBT1001	1		Ac-FOSKGNVFPDGYFEERLPAKL-NH2	899
JBT1002	15		Ac-FOSKGNVFPDGYFEERLRPKL-NH2	900
JBT1003	4		Ac-FOSKGNVFPDGYFEERLRAPL-NH2	901
JBT1004	8		Ac-FOSKGNVFPDGYFEERLRAPL-NH2	902
JBT1005	55	D	Ac-FOSKGNVFPDGYFEERLRAKL-NH2	532
JBT1006	28	A	Ac-FOSKGNVFPDGYFEERL-Hic-AKL-NH2	96
JBT1007	98	A	Ac-FOSKGNVFPDGYFEERLRAKL-NH2	97
JBT1008	83	C	Ac-FOSKGNVFPDGYFEERLRAKL-NH2	318
JBT1009	99	A	Ac-FOSKGNVFPDGYFEERLRAKL-NH2	98
JBT1010	46	D	Ac-FOSKGNVFPDGYFEERLRAKL-NH2	533
JBT1011	8		Ac-FOSKGNVFPDGYFEERLRAKL-NH2	903
JBT1012	14	D	Ac-FOSKGNVFPDGYFEERLRAKL-NH2	534
JBT1013	23	D	Ac-FOSKGNVFPDGYFEERLRAKL-NH2	535
JBT1014	4		Ac-FOSKGNVFPDGYFEERLRAKL-NH2	904
JBT1015	55	D	Ac-FOSKGNVFPDGYFEERLRAKL-NH2	536
JBT1016	102	A	Ac-FOSKGNVFPDGYFEERLRAKL-NH2	99

도면32aw

시험 번호	% 억제 (JBT-0477에 비한)	IC50 평균 [nM]	전환도 클래스	서열	서열 번호
JBT1017	8		D	Ac-FQSKGNVEVDGYFEERLRAKL-NH2	537
JBT1018	12			Ac-FQSKGNVEVDGYFEERQRAKL-NH2	905
JBT1019	76		D	Ac-FQSKGNVEVDGYFEERLQAKL-NH2	538
JBT1020	88		C	Ac-FQSKGNVEVDGYFEERLRQKL-NH2	319
JBT1021	2			Ac-FQSKGNVEVDGYFEERLRAQL-NH2	906
JBT1022	55		D	Ac-FQSKGNVEVDGYFEERLRAKQ-NH2	539
JBT1023	60		D	Ac-RQSKGNVEVDGYFEERLRAKL-NH2	540
JBT1024	11		D	Ac-FRQSKGNVEVDGYFEERLRAKL-NH2	541
JBT1025	93	46	A	Ac-FQSKGNVEVDGYFEERLRAKL-NH2	100
JBT1026	102	38	A	Ac-FQSKGNVEVDGYFEERLRAKL-NH2	101
JBT1027	110	29	A	Ac-FQSKGNVEVDGYFEERLRAKL-NH2	102
JBT1028	15		D	Ac-FQSKGNVEVDGYFEERLRAKL-NH2	542
JBT1029	18		D	Ac-FQSKGNVEVDGYFEERLRAKL-NH2	543
JBT1030	18		D	Ac-FQSKGNVEVDGYFEERLRAKL-NH2	544
JBT1031	27			Ac-FQSKGNVEVDGYFEERLRAKL-NH2	907
JBT1032	6			Ac-FQSKGNVEVDGYFEERLRAKL-NH2	908
JBT1033	60		D	Ac-FQSKGNVEVDGYFEERLRAKL-NH2	545
JBT1034	103	36	A	Ac-FQSKGNVEVDGYFEERLRAKL-NH2	103
JBT1035		92	B	Ac-FQSK-Nmg-AVFVAGYFARL-Nle-AKL-NH2	218
JBT1036	29		D	Ac-FQSKGNVEVDGYFEERLRAKL-NH2	546
JBT1037		27	A	Ac-FQSKGNVEVDGYFEERL-Nle-AKL-NH2	104
JBT1038	107		A	Ac-FQSKGNVEVDGYFEERLRRKL-NH2	105
JBT1039	95		C	Ac-FQSKGNVEVDGYFEERLRAKL-NH2	320
JBT1040	84		C	Ac-FQSKGNVEVDGYFEERLRAKR-NH2	321
JBT1041	37		F	Ac-SQSKGNVEVDGYFEERLRAKL-NH2	734

도면32ax

사물 번호	% 억제 (JBT-0477예 비환)	IC50 평균 [nM]	친화도 클래스	시열	시열 번호
JBT1042	2		D	Ac-IQSKGNVFDGYFERLRAKI-NH2	547
JBT1043		40	A	Ac-IQSKaNVFDGYFERL-NIc-AKI-NH2	106
JBT1044	78		D	Ac-IQSKGNVFDGYFERLRAKI-NH2	548
JBT1045	109	50	A	Ac-IQSKGSVFDGYFERLRAKI-NH2	107
JBT1046	57		D	Ac-IQSKGNSVFDGYFERLRAKI-NH2	549
JBT1047	5			Ac-IQSKGNVSVDGYFERLRAKI-NH2	909
JBT1048	38		D	Ac-IQSKGNVSDGYFERLRAKI-NH2	550
JBT1049	18		D	Ac-IQSKGNVSDSYFERLRAKI-NH2	551
JBT1050	2			Ac-IQSKGNVFDGSEFLRAKI-NH2	910
JBT1051	47		D	Ac-IQSKGNVFDGYSEFLRAKI-NH2	552
JBT1052	84		C	Ac-IQSKGNVFDGYTSRLRAKI-NH2	322
JBT1053	-7			Ac-IQSKGNVFDGYFESLRAKI-NH2	911
JBT1054	1			Ac-IQSKGNVFDGYFESRSRAKI-NH2	912
JBT1055	78		D	Ac-IQSKGNVFDGYFERLSAKI-NH2	553
JBT1056	78		D	Ac-IQSKGNVFDGYFERLSKI-NH2	554
JBT1057	-9			Ac-IQSKGNVFDGYFERLRASL-NH2	913
JBT1058	58		D	Ac-IQSKGNVFDGYFERLRAKS-NH2	555
JBT1059	69		D	Ac-IQSKGNVFDGYFERLRAKL-NH2	556
JBT1060	-1			Ac-ITQSKGNVFDGYFERLRAKI-NH2	914
JBT1061	73		D	Ac-IQIKGNVFDGYFERLRAKL-NH2	557
JBT1062	51		D	Ac-IQSTGNVFDGYFERLRAKI-NH2	558
JBT1063	72		D	Ac-IQSKGIVFDGYFERLRAKI-NH2	559
JBT1064	49		D	Ac-IQSKGNTVFDGYFERLRAKI-NH2	560
JBT1065	-12			Ac-IQSKGNVFDGYFERLRAKL-NH2	915
JBT1066	24		D	Ac-IQSKGNVFTDGYFERLRAKI-NH2	561

32ay면도

시열 번호	% 억제 (JBT-0477에 비한)	IC50 평균 [nM]	친화도 클래스	시열	시열 번호
JBT1067	-2			Ac-FQSKGNVFDVTYFERLRAKL-NH2	916
JBT1068	-10			Ac-FQSKGNVFDGTFERLRAKL-NH2	917
JBT1069	46	D	D	Ac-FQSKGNVFDGTYFERLRAKL-NH2	562
JBT1070	97	A	A	Ac-FQSKGNVFDGYTFERLRAKL-NH2	108
JBT1071	-9			Ac-FQSKGNVFDGYFETLRAKL-NH2	918
JBT1072	9			Ac-FQSKGNVFDGYFERTRAKL-NH2	919
JBT1073	82	C	C	Ac-FQSKGNVFDGYFERLTAKL-NH2	323
JBT1074	71	D	D	Ac-FQSKGNVFDGYFERLRTKL-NH2	563
JBT1075	-15			Ac-FQSKGNVFDGYFERLRATL-NH2	920
JBT1076	69	D	D	Ac-FQSKGNVFDGYFERLRAKT-NH2	564
JBT1077	81	C	C	Ac-VQSKGNVFDGYFERLRAKL-NH2	324
JBT1078	-3			Ac-FVSKGNVFDGYFERLRAKL-NH2	921
JBT1079	93	C	C	Ac-FQVKGNVFDGYFERLRAKL-NH2	325
JBT1080	92	C	C	Ac-FQSVGNVFDGYFERLRAKL-NH2	326
JBT1081	95	C	C	Ac-FQSKGVVFDGYFERLRAKL-NH2	327
JBT1082		250	D	Ac-FQSKaAVFVFQYFARLRAKL-NH2	565
JBT1083	17			Ac-FQSKGNVVDGYFERLRAKL-NH2	922
JBT1084		45	A	Ac-FQSK-Nmg-AVFVAGYFARLRAKL-NH2	109
JBT1085	-10			Ac-FQSKGNVVDVYFERLRAKL-NH2	923
JBT1086	-15			Ac-FQSKGNVFDGYFERLRAKL-NH2	924
JBT1087	40	D	D	Ac-FQSKGNVFDGYVERLRAKL-NH2	566
JBT1088	99	A	A	Ac-FQSKGNVFDGYFVRLRAKL-NH2	110
JBT1089	-4			Ac-FQSKGNVFDGYFEVLRAKL-NH2	925
JBT1090	37	D	D	Ac-FQSKGNVFDGYFERVRAKL-NH2	567
JBT1091	91	53	B	Ac-FQSKGNVFDGYFERLVAKL-NH2	219

도면32az

시험 번호	% 억제 (JBT-047에 비한)	IC50 평균 [nM]	친화도 클래스	시험	시험 번호
JBT1092	85		C	Ac-FQSKGNVFVDGYFERLRVKL-NH2	328
JBT1093	6			Ac-FQSKGNVFVDGYFERLRAYL-NH2	926
JBT1094	68		D	Ac-FQSKGNVFVDGYFERLRKV-NH2	568
JBT1095	92		C	Ac-WQSKGNVFVDGYFERLRKL-NH2	329
JBT1096	-3			Ac-FWSKGNVFVDGYFERLRKL-NH2	927
JBT1097	55		D	Ac-FQWKGNVFVDGYFERLRKL-NH2	569
JBT1099	58		D	Ac-FQSKGNVFVDGYFERLRKL-NH2	570
JBT1100	45		D	Ac-FQSKGNVFVDGYFERLRKL-NH2	571
JBT1101	55		D	Ac-FQSKGNVFVDGYFERLRKL-NH2	572
JBT1102	4		D	Ac-FQSKGNVFVDGYFERLRKL-NH2	573
JBT1103	15		D	Ac-FQSKGNVFVDGYFERLRKL-NH2	574
JBT1104	0			Ac-FQSKGNVFVDGYFERLRKL-NH2	928
JBT1105	85		C	Ac-FQSKGNVFVDGYFERLRKL-NH2	330
JBT1106	82	59	B	Ac-FQSKGNVFVDGYFERLRKL-NH2	220
JBT1107	-7			Ac-FQSKGNVFVDGYFERLRKL-NH2	929
JBT1108	9		D	Ac-FQSKGNVFVDGYFERLRKL-NH2	575
JBT1109	78		D	Ac-FQSKGNVFVDGYFERLRKL-NH2	576
JBT1110	93		C	Ac-FQSKGNVFVDGYFERLRKL-NH2	331
JBT1111	-6			Ac-FQSKGNVFVDGYFERLRKL-NH2	930
JBT1112	87		C	Ac-FQSKGNVFVDGYFERLRKL-NH2	332
JBT1113	101		A	Ac-YQSKGNVFVDGYFERLRKL-NH2	111
JBT1114	12			Ac-FYSKGNVFVDGYFERLRKL-NH2	931
JBT1115	75		D	Ac-FQYKGNVFVDGYFERLRKL-NH2	577
JBT1117	83		C	Ac-FQSKGNVFVDGYFERLRKL-NH2	333
JBT1118	82		C	Ac-FQSKGNVFVDGYFERLRKL-NH2	334

도면32ba

사물 번호	% 억제 (JBT-0477에 비한)	IC50 평균 [nM]	친화도 클래스	서열	서열 번호
JBT1119	99		A	Ac-FQSKGNVYVDGYFEERLRAKL-NH2	112
JBT1120	11		D	Ac-FQSKGNVEVDGYFEERLRAKL-NH2	578
JBT1121	12			Ac-FQSKGNVEVDYTYFEERLRAKL-NH2	932
JBT1122		33	A	Ac-FQSK-Nmg-NVFVDGYFARL-Nle-AKL-NH2	113
JBT1123	84		C	Ac-FQSKGNVEVDGYFEERLRAKL-NH2	335
JBT1124	85		C	Ac-FQSKGNVEVDGYFEYLRAKL-NH2	336
JBT1125	8			Ac-FQSKGNVEVDGYFEYLRAKL-NH2	933
JBT1126	11			Ac-FQSKGNVEVDGYFEERYAKL-NH2	934
JBT1127	92		C	Ac-FQSKGNVEVDGYFEERLYAKL-NH2	337
JBT1128	65		D	Ac-FQSKGNVEVDGYFEERLRYKL-NH2	579
JBT1129	-7			Ac-FQSKGNVEVDGYFEERLRAVY-NH2	935
JBT1130	76		D	Ac-FQSKGNVEVDGYFEERLRAKY-NH2	580
JBT1132		20	A	Peam-FQSKGNVEVDGYFEERLRAKL-NH2	114
JBT1133		31	A	Ac-FQSKAVEVDGYFARLRAKL-NH2	115
JBT1134		39	A	Ac-FQSKGAVEVDGYFARLRAKL-NH2	116
JBT1135		82	B	Ac-FQSKDAVEVDGYFARLRAKL-NH2	221
JBT1136		40	A	Ac-FQSKdAVEVDGYFARLRAKL-NH2	117
JBT1137		40	A	Ac-FQSKAVEVDGYFARLRAKL-NH2	118
JBT1138		64	B	Ac-FQSKGAVEVDGYFARLRAKL-NH2	222
JBT1139		87	B	Ac-FQSKDAVEVDGYFARLRAKL-NH2	223
JBT1140		36	A	Ac-FQSKdAVEVDGYFARLRAKL-NH2	119
JBT1141		34	A	Ac-FQSKAVEVDGYFARLRAKL-NH2	120
JBT1142		53	B	Ac-FQSKGAVEVDGYFARLRAKL-NH2	224
JBT1143		58	B	Ac-FQSKDAVEVDGYFARLRAKL-NH2	225
JBT1144		34	A	Ac-FQSKdAVEVDGYFARLRAKL-NH2	121

도면32bb

사물 번호	% 억제 (JBT-0477에 비한)	IC50 평균 [nM]	친화도 클래스	서열	서열 번호
JBT1145		45	A	Ac-FQSKAVFVITGYFARLRACL-NH2	122
JBT1146		65	B	Ac-FQSKGAVFVTGYFARLRACL-NH2	226
JBT1147		95	B	Ac-FQSKDAVFVTGYFARLRACL-NH2	227
JBT1148		46	A	Ac-FQSKDAVFVTGYFARLRACL-NH2	123
JBT1149		>5000		Ac-FQSKGNVFEFGYFERLRACL-NH2	936
JBT1150		1154	E	Ac-FQSKANVFVTGYFERLRACL-NH2	704
JBT1151		>5000		Ac-FQSKKNVFEFGYFERLRACD-NH2	937
JBT1152		4119	F	Ac-FQSKKNVFVTGYFERLRACL-NH2	735
JBT1153		1294	E	Ac-FQSKKNVFVTGYFERLRACL-NH2	705
JBT1154		27	A	Pam-Tids-FQSKGNVFEVDGYFERLRACL-NH2	124
JBT1155		31	A	Ac-FQSK-Nimg-NVFVTGYFERLRACL-NH2	125
JBT1156		41	A	Ac-FQSKANVFVTGYFARLRACL-NH2	126
JBT1157		34	A	Ac-FQSKANVFVAGYFARLRACL-NH2	127
JBT1158		51	B	Ac-FQSKGNVFEFGYFERLRACL-N-에틸	228
JBT1159		38	A	Ac-FQSKGNVFEFGYFERLRACL-N-에틸	128
JBT1161		122	C	Ac-FQSK-Aib-NVFVTGYFERLRACL-NH2	338
JBT1162		28	A	Ac-FQSKpNVFVTGYFERLRACL-NH2	129
JBT1164		28	A	Ac-FQSKGNVFEVDGYFERLRACL-NH2	130
JBT1166	70	129	C	Ac-FQSKANVFVTGYFERLRACL-NH2	339
JBT1167	57		D	Ac-FQSKENVFVTGYFERLRACL-NH2	581
JBT1168	86	94	B	Ac-FQSKHNVFVTGYFERLRACL-NH2	229
JBT1169	70	127	C	Ac-FQSKINVFVTGYFERLRACL-NH2	340
JBT1170	37		D	Ac-FQSKINVFVTGYFERLRACL-NH2	582
JBT1171	81		C	Ac-FQSKLNVFVTGYFERLRACL-NH2	341
JBT1173	11		D	Ac-FQSKPNVFVTGYFERLRACL-NH2	583

도면32bc

시료 번호	% 억제 (JBT-047에 비한)	IC ₅₀ 평균 [nM]	친화도 클래스	시열	시열 번호
JBT1174	83	115	C	Ac-FQSKRNVEVDGYFERLRAKL-NH2	342
JBT1175	63		D	Ac-FQSKSNVEVDGYFERLRAKL-NH2	584
JBT1176	79		D	Ac-FQSKTNVEVDGYFERLRAKL-NH2	585
JBT1177	61		D	Ac-FQSKVNVEVDGYFERLRAKL-NH2	586
JBT1178	54		D	Ac-FQSKWNVEVDGYFERLRAKL-NH2	587
JBT1179	86	100	C	Ac-FQSKYNVEVDGYFERLRAKL-NH2	343
JBT1180	101	98	B	Ac-FQSKGNVEVAGYFERLRAKL-NH2	230
JBT1181	86	107	C	Ac-FQSKGNVEVIGYFERLRAKL-NH2	344
JBT1182	71		D	Ac-FQSKGNVEVSGYFERLRAKL-NH2	588
JBT1183	52		D	Ac-FQSKGNVEVLGYFERLRAKL-NH2	589
JBT1184	97	52	B	Ac-FQSKGNVEVMGYFERLRAKL-NH2	231
JBT1185	105	50	B	Ac-FQSKGNVEVPGYFERLRAKL-NH2	232
JBT1186	60		D	Ac-FQSKGNVEVQGYFERLRAKL-NH2	590
JBT1188	104		A	Ac-FQSKGNVEVSGYFERLRAKL-NH2	131
JBT1189	124	48	A	Ac-FQSKGNVEVVGYFERLRAKL-NH2	132
JBT1190	116	101	C	Ac-FQSKGNVEVWGYFERLRAKL-NH2	345
JBT1191	112	158	C	Ac-FQSKGNVEVYGYFERLRAKL-NH2	346
JBT1192	81	113	C	Ac-FQSKANVEVDGYFERLAAKL-NH2	347
JBT1193	73		D	Ac-FQSKINVEVDGYFERLAAKL-NH2	591
JBT1194	65		D	Ac-FQSKYNVEVDGYFERLAAKL-NH2	592
JBT1195	44		D	Ac-FQSKINVEVDGYFERLAAKL-NH2	593
JBT1196	85		C	Ac-FQSKRENEVDGYFERLAAKL-NH2	348
JBT1197	100	63	B	Ac-FQSKGNVEVDGYFMRLAAKL-NH2	233
JBT1198	60		D	Ac-FQSKANVEVDGYFERLRAKL-NH2	594
JBT1199	62		D	Ac-FQSKINVEVDGYFERLAAKL-NH2	595

도면32bd

사물 번호	% 억제 (JBT-047에 비한)	IC50 평균 [nM]	친화도 클래스	서열	서열 번호
JBT1200	53	226	C	Ac-FQSKDNNVFVHGTFEERLAAKL-NH2	349
JBT1201	44		D	Ac-FQDPKNNVFVDGYFEERLAAKL-NH2	596
JBT1202	34		D	Ac-FQSKVNNVFVDGYFEERLAAKL-NH2	597
JBT1203	50		D	Ac-FQSKNNVFVDGYFEERLAAKL-NH2	598
JBT1204	106	98	B	Ac-FQSKERNVFVDGYFEERLAAKL-NH2	234
JBT1205	85	128	C	Ac-FQSKERNVFVDGYFEERLAAKL-NH2	350
JBT1206	104	74	B	Ac-FQSKGHNVVDGYFEERLAAKL-NH2	235
JBT1207	48		D	Ac-FQSKTNNVFVDGYFEERLAAKL-NH2	599
JBT1208	37		D	Ac-FQSHYNNVFVDGYFEERLAAKL-NH2	600
JBT1209	32		D	Ac-FQSKENNVFVDGYFEERLAAKL-NH2	601
JBT1210	61	137	C	Ac-FQSKQNNVFVDGYFEERLAAKL-NH2	351
JBT1211	79	105	C	Ac-FQSKYNNVFVDGYFEERLAAKL-NH2	352
JBT1212	86		C	Ac-FQSRNNNVFVDGYFEERLAAKL-NH2	353
JBT1213	64	122	C	Ac-FQSRQNNVFVDGYFEERLAAKL-NH2	354
JBT1214	64	132	C	Ac-FQSKQNNVFVDGYFEERLAAKL-NH2	355
JBT1215	72	171	C	Ac-FQSKNNVFVDGYFEERLAAKL-NH2	356
JBT1216	70	117	C	Ac-FQSKENNVFVDGYFEERLAAKL-NH2	357
JBT1217	63		D	Ac-FQSHNNVFVDGYFEERLAAKL-NH2	602
JBT1218	72		D	Ac-FQSYKNNVFVDGYFEERLAAKL-NH2	603
JBT1219	76	90	B	Ac-FQSKNNVFVDGYFEERLAAKL-NH2	236
JBT1220	85	85	B	Ac-FQTKHNNVFVDGYFEERLAAKL-NH2	237
JBT1221	67		D	Ac-FQSKHNNVFVDGYFEERLAAKL-NH2	604
JBT1222	85	82	B	Ac-FQSKYNNVFVDGYFEERLAAKL-NH2	238
JBT1223	54		D	Ac-FQSKHNVFVDGYFEERLAAKL-NH2	605
JBT1224	57		D	Ac-FQSKANNVFVDGYFEERLAAKL-NH2	606

도면32be

시료 번호	% 약제 (JBT-0477에 비한)	IC50 평균 [mM]	친화도 클래스	시열	시열 번호
JBT1225	77	107	C	Ac-FQSKDNVFDGYFERL/AKL-NH2	358
JBT1226	26			Ac-IQSKTNVFDGYFERL/AKL-NH2	938
JBT1227	99	76	B	Ac-IQSKNNVFDGYFERL/AKL-NH2	239
JBT1228	99	55	B	Ac-IQSKDHVFDGYFERL/AKL-NH2	240
JBT1229	93	92	B	Ac-IQSKHNVFDGYFERL/ARKL-NH2	241
JBT1230	52		D	Ac-IQSKSNVFDGYFERL/AKL-NH2	607
JBT1231	68	92	B	Ac-IQSKHNVFDGYFERL/AKL-NH2	242
JBT1232	47		D	Ac-IQSHKNVFDGYFERL/AKL-NH2	608
JBT1233	11			Ac-IQSKFNVFDGYTERL/AKL-NH2	939
JBT1234	63		D	Ac-IQSKDNVFDGYFERL/AKL-NH2	609
JBT1235	65		D	Ac-IQSKMNVFDGYFERL/AKL-NH2	610
JBT1236	41		E	Ac-IQSVKNVFDGYFERL/AKL-NH2	706
JBT1238	14			Ac-IQSKHNVFDGHFERL/AKL-NH2	940
JBT1240	61		D	Ac-IQSAYNVFDGYFERL/AKL-NH2	611
JBT1241	53		D	Ac-IQSKGNVFDGYFERL/AKL-NH2	612
JBT1242	49		E	Ac-IQSKVAVFDGYFERL/AKL-NH2	707
JBT1243	59		D	Ac-IQSAKNVFDGYFVRL/RAKL-NH2	613
JBT1244	62		D	Ac-IQSKTNVFDGYFERL/AKL-NH2	614
JBT1245	34		F	Ac-IQSKKDVFDGYFERL/AKL-NH2	736
JBT1246	68		D	Ac-IQSKHNVFDGYFERL/AKL-NH2	615
JBT1247	39		F	Ac-IQSKSNVFDGYFERL/AKL-NH2	737
JBT1248	6			Ac-IQSVHNVFDGYFERPAKL-NH2	941
JBT1249	7			Ac-IQSKYNVFDGYFERL/AKL-NH2	942
JBT1250	66	216	C	Ac-IQSKDNVFDGYFERL/AARL-NH2	359
JBT1251	60		D	Ac-IQSKKHVFDGYFERL/AKL-NH2	616

도면32bf

시험 번호	% 약제 (JBT-0477에 비한)	IC50 평균 [nM]	친화도 클래스	시험	시험 번호
JBT1252	37		F	Ac-FQSTKKNVFVDGYFERLAAKL-NH2	738
JBT1253	30		D	Ac-FQSDKKNVFVDGYFERLAAKL-NH2	617
JBT1254	93	47	A	Ac-FQSKHHVFVDGYFERLAAKL-NH2	133
JBT1255	41		D	Ac-FQSNKKNVFVDGYFERLAAKL-NH2	618
JBT1256	88	125	C	Ac-FQSKHNVYVDGYFERLAAKL-NH2	360
JBT1257	40		D	Ac-FQSHKKNVFVEGYFERLAAKL-NH2	619
JBT1258	13			Ac-FQSKPNVFVDGYFERLAAKL-NH2	943
JBT1259	23		D	Ac-FQSYKDNVFVDGYFERLAAKL-NH2	620
JBT1260	113	50	A	Ac-FQSRGCVFVDGYFERLAAKL-NH2	134
JBT1261	81	98	B	Ac-FQSKLNVFVDGYFERLAAKL-NH2	243
JBT1262	15		D	Ac-FQSKNNHVFVDGYFERLAAKL-NH2	621
JBT1263	78	152	C	Ac-FQSKYNHVFVDGYFERLAAKL-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-HQQHKNVFVDGYFERLAAKL-NH2	944
JBT1269	58	155	C	Ac-FQSGKNVFVDGYFERLAAKL-NH2	363
JBT1270	61		D	Ac-FQSEKKNVFVDGYFERLAAKL-NH2	624
JBT1271	21		D	Ac-FQSKKNVFVDGYFERLAAKL-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-FQSPKNVFVDGYFERLAAKL-NH2	365
JBT1277	-4			Ac-FQSKHNVFVDAYFERLAAKL-NH2	945

도면32bg

시험 번호	% 억제 (JBT-0477에 비한)	IC50 평균 [nM]	친화도 클래스	시험	시험 번호
JBT1278	74	73	B	Ac-FQSVGNVFVDGYFERL,SAKL,-NH2	244
JBT1279	13		D	Ac-FQSYKKNVFVDGYFERL,FAKL,-NH2	628
JBT1280	56	160	C	Ac-FQSRKNVFVDGYFERL,RAKL,-NH2	366
JBT1281	-5			Ac-FQSKKNVFVDGYSERL,RAKL,-NH2	946
JBT1282	52	176	C	Ac-FQSKKRNVVDGYFERL,RAKL,-NH2	367
JBT1283	36		F	Ac-FQSENVFVDGYFERL,HAKL,-NH2	740
JBT1285	100	186	C	Ac-FQSIKNVFVDGYFERL,RAKL,-NH2	368
JBT1286	113	69	B	Ac-FQSKGNVFVDGYFERL,RAKL,-NH2	245
JBT1287	86		C	Ac-CQSKGNVFVDGYFERL,RAKL,-NH2	369
JBT1288	32		D	Ac-FQSKGNVFVDGYFERL,RAKL,-NH2	629
JBT1289	96		A	Ac-FQCKGNVFVDGYFERL,RAKL,-NH2	135
JBT1290	64		D	Ac-FQSCGNVFVDGYFERL,RAKL,-NH2	630
JBT1292	109	30	A	Ac-FQSKGCVFVDGYFERL,RAKL,-NH2	136
JBT1293	17		D	Ac-FQSKGNCFVDGYFERL,RAKL,-NH2	631
JBT1294	-6			Ac-FQSKGNVCVDGYFERL,RAKL,-NH2	947
JBT1295	1			Ac-FQSKGNVFCVDGYFERL,RAKL,-NH2	948
JBT1296	65		D	Ac-FQSKGNVFCGYFERL,RAKL,-NH2	632
JBT1297	66		D	Ac-FQSKGNVFVDCGYFERL,RAKL,-NH2	633
JBT1298	-20			Ac-FQSKGNVFVDGCYFERL,RAKL,-NH2	949
JBT1299	111	28	A	Ac-FQSKGNVFVDGYCERL,RAKL,-NH2	137
JBT1300	113		A	Ac-FQSKGNVFVDGYFCRL,RAKL,-NH2	138
JBT1301	-18			Ac-FQSKGNVFVDGYFECT,RAKL,-NH2	950
JBT1302	27		D	Ac-FQSKGNVFVDGYFERCRAKL,-NH2	634
JBT1303	97		A	Ac-FQSKGNVFVDGYFERL,CAKL,-NH2	139
JBT1304	85		C	Ac-FQSKGNVFVDGYFERL,RCKL,-NH2	370

도면32bh

시열 번호	% 억제 (JBT-0477에 비한)	IC50 평균 [nM]	친화도 클래스	시열	시열 번호
JBT1305	-6			Ac-FQSKGNVFVDGYFERLRAKL-NH2	951
JBT1306	65		D	Ac-FQSKGNVFVDGYFERLRACG-NH2	635
JBT1307	103		A	Ac-FQSKANVFVDGYFERLCAKL-NH2	140
JBT1308	86		C	Ac-FQSKFNVFVDGYFERLCAKL-NH2	371
JBT1309	92		C	Ac-FQSKYNVFVDGYFERLCAKL-NH2	372
JBT1310	95		C	Ac-FQSKHNVFVDGYFERLCAKL-NH2	373
JBT1311	83		C	Ac-FQSKENVFVDGYFERLCAKL-NH2	374
JBT1312	99		A	Ac-FQSKGNVFVDGYFERLCAKL-NH2	141
JBT1313	87		C	Ac-FQSKCNVFVDGYFERLRACL-NH2	375
JBT1314	55		D	Ac-FQSKNVVFVDGYFERLCAKL-NH2	636
JBT1315	95	35	A	Ac-FQSKDNVFVHGTYFERLCAKL-NH2	142
JBT1316	90		C	Ac-FQDPKNVFVDGYFERLCAKL-NH2	376
JBT1317	76		D	Ac-FQSKVNVFVDGYFERLCAKL-NH2	637
JBT1318	73		D	Ac-FQSKNVVFVDGYFERLCAKL-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-FQSKINVFVDGYFERLCAKL-NH2	377
JBT1323	87	171	C	Ac-FQSHYNNVFVDGYFERLCAKL-NH2	378
JBT1324	92	424	D	Ac-FQSKENVFVDGYFERLCAKL-NH2	640
JBT1325	62		D	Ac-FQSKQNVFVDGYFERLCAKL-NH2	641
JBT1326	61		D	Ac-FQSKYNVFVDGYFERLCAKL-NH2	642
JBT1328	93		C	Ac-FQSKQNVFVDGYFERLCAKL-NH2	379
JBT1329	96	20	A	Ac-FQSKQNVFVDGYFERLCAKL-NH2	145
JBT1330	86		C	Ac-FQSKKNVFVDGYFERLCAKL-NH2	380

32bi
도면

시험 번호	% 억제 (JBT-047에 비한)	IC50 평균 [nM]	친화도 클래스	서열	서열 번호
JBT1331	100		A	Ac-1QSKENNVFVDGYFERLCAKL-NH2	146
JBT1332	87		C	Ac-1QSHHNVFVDGYFERLCAKL-NH2	381
JBT1333	72		D	Ac-1QSYKNNVFVDGYFERLCAKL-NH2	643
JBT1334	103	23	A	Ac-1QSKKNVFVDGYFERLCAKL-NH2	147
JBT1335	111	247	C	Ac-1QTKHNVFVDGYFERLCAKL-NH2	382
JBT1336	61		D	Ac-1QSKHNVFVDGYFERLCAKL-NH2	644
JBT1337	74		D	Ac-1QSKYNVFVDGYFERLCAKL-NH2	645
JBT1338	46		D	Ac-1QSEKHNVFVDGYFERLCAKL-NH2	646
JBT1339	88		C	Ac-1QSKANVHVVDGYFERLCAKL-NH2	383
JBT1340	7			Ac-1QSKCNVFVDGYFERLCAKL-NH2	952
JBT1341	98	49	A	Ac-1QSKDNVFVDGYFERLCAKL-NH2	148
JBT1342	75		D	Ac-1QSKTNVFVDGYFERLCAKL-NH2	647
JBT1343	99		A	Ac-1QSKNNVFVDGYFERLCAKL-NH2	149
JBT1344	95		A	Ac-1QSKDHVFVDGYFERLCAKL-NH2	150
JBT1345	91		C	Ac-1QSKHNVFVDGYFERLCAKL-NH2	384
JBT1346	20		D	Ac-1QSKCNVFVDGYFERLCAKL-NH2	648
JBT1347	95	24	A	Ac-1QSKHNVFVDGYFERLCAKL-NH2	151
JBT1348	91		C	Ac-1QSKSNVFVDGYFERLCAKL-NH2	385
JBT1349	82		C	Ac-1QSHKNNVFVDGYFERLCAKL-NH2	386
JBT1350	35		D	Ac-1QSKFNVFVDGYFERLCAKL-NH2	649
JBT1351	85		C	Ac-1QSKMNVFVDGYFERLCAKL-NH2	387
JBT1352	85		C	Ac-1QSKMNVFVDGYFERLCAKL-NH2	388
JBT1353	51		D	Ac-1QSKNVFVDGYFERLCAKL-NH2	650
JBT1354	86		C	Ac-1QSAKNVFVDGYFERLCAKL-NH2	389
JBT1356	49		E	Ac-1QSKENNVFVDGYFERLCAKL-NH2	708

32bj면도

시료 번호	% 억제 (JBT-047에 비한)	IC50 평균 [nM]	친화도 클래스	시열	시열 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-FQSKNVFVDGYFVRLRAKL-NH2	653
JBT1361	75		D	Ac-FQSKTNVFVDGYFERLCAKL-NH2	654
JBT1362	76		D	Ac-FQSKKDVFVDGYFERLCAKL-NH2	655
JBT1363	88		C	Ac-FQSKHVFVDGYFERLCAKL-NH2	390
JBT1364	64		D	Ac-FQSKSNVFVDGYFERLCAKL-NH2	656
JBT1365	-4			Ac-FQSVHNVFVDGYFERPCAKL-NH2	954
JBT1366	21			Ac-FQSKYNVFVDEYFERLCAKL-NH2	955
JBT1367	83		C	Ac-FQSKDNVFVDGYFERLCAKL-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-FQSKNVFVDGYFERLCAKL-NH2	393
JBT1373	96		A	Ac-FQSKHNVFVDGYFERLCAKL-NH2	153
JBT1374	71		D	Ac-FQSHKNVFVEGYFERLCAKL-NH2	658
JBT1375	45		D	Ac-FQSKPNVFVDGYFERLCAKL-NH2	659
JBT1376	47		D	Ac-FQSKDVVFVDGYFERLCTKL-NH2	660
JBT1377	101		A	Ac-FQSRGVFVDGYFERLCAKL-NH2	154
JBT1378	70		D	Ac-FQSKLVFVDGYFERLCAKL-NH2	661
JBT1379	40		D	Ac-FQSKNNVFVDGYFERLCAKL-NH2	662
JBT1380	66		D	Ac-FQSKYNFVDGYFERLCAKL-NH2	663
JBT1381	106	19	A	Ac-YQSKQNVFVDGYFERLCAKL-NH2	155

도면32bk

시험 번호	% 억제 (JBT-0477에 비한)	IC50 평균 [nM]	친화도 클래스	시험	시험 번호
JBT1383	103		A	Ac-FQSEHNVEVDGYFERLCAKL-NH2	156
JBT1384	105	23	A	Ac-FQSKDNVEVDGYFERLCAKL-NH2	157
JBT1385	54		D	Ac-HQQEKNVFVDGYFERLCAKL-NH2	664
JBT1386	107	76	B	Ac-FQSGGNVEVDGYFERLCAKL-NH2	246
JBT1387	92		C	Ac-FQSEKNVEVDGYFERLCAKL-NH2	394
JBT1388	90		C	Ac-FQSKKNVEVDGYFERLCAKL-NH2	395
JBT1389	106	23	A	Ac-FQSKRNVEVDGYFERLCAKL-NH2	158
JBT1390	96		A	Ac-FQSPKNVEVDGYFERLCAKL-NH2	159
JBT1391	99		A	Ac-FQSGKNVEVDGYFERLCAKL-NH2	160
JBT1392	68	235	C	Ac-FQSKQNVFVDGYFERLSAKL-NH2	396
JBT1393	67	205	C	Ac-FQSKKNVEVDGYFERLSAKL-NH2	397
JBT1394	88	191	C	Ac-FQSKDNVEVDGYFERLSAKL-NH2	398
JBT1395	100	173	C	Ac-FQSKHNVEVDGYFERLSAKL-NH2	399
JBT1396		29	A	Ac-FQSK-Nmg-NVFAGYFERLRAKL-NH2	161
JBT1397	5	1569	E	Ac-F-Aib-SKGNVEVDGYFERL-Aib-AKL-NH2	710
JBT1398	5	660	D	Ac-F-Q-Aib-KGNVEVDGYFERL-Aib-AKL-NH2	665
JBT1399	109	40	A	Ac-FQSK-Aib-KGNVEVDGYFERL-Aib-AKL-NH2	162
JBT1400	92	46	A	Ac-FQSK-Aib-NVEVDGYFERL-Aib-AKL-NH2	163
JBT1401	-7	913	D	Ac-FQSKG-Aib-VEVDGYFERL-Aib-AKL-NH2	666
JBT1402	-8	1144	E	Ac-FQSKGN-Aib-FVDGYFERL-Aib-AKL-NH2	711
JBT1403	-6	>5000		Ac-FQSKGNV-Aib-VDGYFERL-Aib-AKL-NH2	956
JBT1404	13	329	D	Ac-FQSKGNVEVDGYFERL-Aib-AKL-NH2	667
JBT1405	6	313	D	Ac-FQSKGNVEVD-Aib-GYFERL-Aib-AKL-NH2	668
JBT1406	3	610	D	Ac-FQSKGNVEVD-Aib-YFERL-Aib-AKL-NH2	669
JBT1407	6	>5000		Ac-FQSKGNVEVDG-Aib-Aib-AKL-NH2	957

도면32b1

시료 번호	% 액체 (JBT-0477에 비한)	IC50 평균 [mM]	친화도 클래스	서열	서열 번호
JBT1408	78	92	B	Ac-TQSKGNVFVDGY-Aib-ERL-Aib-AKL-NH2	247
JBT1409	104	65	B	Ac-TQSKGNVFVDGYF-Aib-RL-Aib-AKL-NH2	248
JBT1410	-3	>5000		Ac-TQSKGNVFVDGYFE-Aib-L-Aib-AKL-NH2	958
JBT1413	-1	>5000		Ac-TQSKGNVFVDGYFERL-Aib-A-Aib-L-NH2	959
JBT1414	86	119	C	Ac-TQSKGNVFVDGYFERL-Aib-AK-Aib-NH2	400
JBT1415	5	3668	F	Ac-Aib-QSKGNVFVDGYFERL-Aib-AKL-NH2	741
JBT1584		9	A	Ac-TQSK-Nmg-NVFVDGYFERL-Aib-AKL-NH2	164
JBT1585		12	A	Ac-TQSK-Nmg-NVFVTGYFERL-Aib-AKL-NH2	165
JBT1586		25	A	AO-TQSKGNVFVDGYFERL-Aib-AKL-NH2	166
JBT1587		45	A	Ac-TQSKGNVFVDGYFERL-Aib-AKL-NH2	167
JBT1590		106	C	Ac-TQSKGNVFV(CGYFERL-Aib-AKL-C)-NH2	401
JBT1591		40	A	Ac-TQSKGNVFVDGYF(CRL-Aib-AKL-C)-NH2	168
JBT1592		105	C	Ac-ICQSKGNVFVDGYFERL(AKL)-NH2	402
JBT1593		462	D	Ac-TQSK(CNVEVDGYFERL(C)AKL)-NH2	670
JBT1594		952	D	Ac-TQSKGNVFV(CGYFERL(C)AKL)-NH2	671
JBT1595		249	C	Ac-ICQSKGNVFV(CGYFERL-Aib-AKL)-NH2	403
JBT1596		129	C	Ac-ICQSKGCVVEGYFERL-Aib-AKL-NH2	404
JBT1597		>5000		Ac-DGYFERLRAKL-NH2	960
JBT1598		>5000		Ac-TQSKKNV-NH2	961
JBT1843		35	A	Ac-TQSKGNFVDGYFERLHAKL-NH2	169
JBT1844		41	A	Ac-TQSKNNVFVDGYF(KRL)RAKL-NH2	170
JBT1845		89	B	Ac-TQSKHVFVDGYFERLRAKL-NH2	249
JBT1846		54	B	Ac-TQSKGVFVDGYF(KRL)RAKL-NH2	250
JBT1847		30	A	Ac-YQIKGNVFVDGYFERLRAKL-NH2	171
JBT1848		112	C	Ac-TQSKYNVFVDGYFERLFAKL-NH2	405

도면32bm

시열 번호	% 억제 (JBT-0477에 비한)	IC50 평균 [nM]	친화도 클래스	시열	시열 번호
JBT11849		44	A	Ac-FQTKDNVHVVDGYFERLRAKL-NH2	172
JBT11850		56	B	Ac-FQSYKRVFVDGYFERLRAKL-NH2	251
JBT11851		49	A	Ac-LQOKGNVFVDGYFERLRAKL-NH2	173
JBT11852		19	A	PEG-FQSKGNVFVDGYFERL-Aib-AKL-NH2	174
JBT11853		42	A	PEG-FQSKGNVFVDGYFERL-Aib-AKL-NH2	175
JBT11854		16	A	Ac-FQSKGNVFVDGYFERL-Aib-AKL-C(PEG)-NH2	176
JBT11855		96	B	Ac-FQSKpNVFVDGYFERL-Aib-AKL-NH2	252
JBT11856		17	A	Ac-FQSKpNVFVDGYFERL-Aib-AKL-NH2	177
JBT11857		14	A	Ac-FQSKpNVHVVDGYFERL-Aib-AKL-NH2	178
JBT2266		20	A	Ac-PFQSKGNVFVDGYFERLRAKL-NH2	179
JBT2267		19	A	Ac-PFQSKGNVFVDGYFERLRAKL-NH2	180
JBT2268		18	A	Ac-PFQSK-Nme-NVFVDGYFERL-Aib-AKL-NH2	181

도면33

시료 번호	EC50 (μ M)	서열	서열 번호
JBT0051	1.0	비오틴-TTds-SGYGRLQVAFQSKKNVFVGYFERLRAKLTS-NH2	962
JBT0055	1.7	Ac-SGYGRLQVAFQSKKNVFVGYFERLRAKLTS-TTds-라이신(비오틴)-NH2	963
JBT0131	16.8	비오틴-TTds-AFQSKKNVFVGYFERLRAK-NH2	964
JBT0132	2.2	비오틴-TTds-FQSKKNVFVGYFERLRAKL-NH2	965
JBT0133	>25000	비오틴-TTds-QSKKNVFVGYFERLRAKL-T-NH2	966
JBT0134	>1000	비오틴-TTds-QSKKNVFVGYFERLRAK-NH2	967
JBT0166	0.9	비오틴-TTds-KKFQSKKNVFVGYFERLRAKLKK-NH2	968
JBT0167*	574.8	비오틴-TTds-GKNNAKFYLFESLRQVKFVFR-NH2	969
JBT0168*	152.3	비오틴-TTds-YKFSFNKIELFKQARLRFGV-NH2	970
JBT0173	>5000	비오틴-TTds-SGYGRLQVAFQSKKNVFVGY-NH2	971
JBT0403	1.4	비오틴-TTds-FQSKKNVFVDGYFERLRAKL-NH2	972

도면34a

시료 번호	IC50 [nm]	진화도 클래스	시열	시열 번호
JB10120	59	B	Ac-SGASRYKWFICGMRDMDKGTMSCIWVKFRYDTS-NH2	1047
JB10247	>206		Ac-SGASRYKWFICGMRDMDKGTMSCIWVKFRYDTS-NH2	1213
JB10248	30	A	Ac-KKSGASRYKWFICGMRDMDKGTMSCIWVKFRYDTSKK-NH2	1001
JB10249	>50000		Ac-KKSGASRYKWFICGMRDMDKGTMSKK-NH2	1214
JB10250	8766	F	Ac-KKSRYKWFICGMRDMDKGTMSCIWKK-NH2	1201
JB10251	5207	F	Ac-KKWFICGMRDMDKGTMSCIWVKFRK-NH2	1202
JB10252	>50000		Ac-KKCGMRDMDKGTMSCIWVKFRYDCK-NH2	1215
JB10253	>207		Ac-KKMRDMDKGTMSCIWVKFRYDTSKK-NH2	1216
JB10319	32	A	Ac-SGASRYKWFICGMRDMDKGTMSCIWVKFRY-NH2	1002
JB10319	109	C	Ac-SGASRYKWFICGMRDMDKGTMSCIWVKFRY-NH2	1075
JB10320	977	D	Ac-SGASRYKWFICGMRDMDKGTMSCIWVK-NH2	1103
JB10321	>50000		Ac-SGASRYKWFICGMRDMDKGTMSCI-NH2	1217
JB10322	>50000		Ac-SGASRYKWFICGMRDMDKGTMD-NH2	1218
JB10323	118	C	Ac-SRYKWFICGMRDMDKGTMSCIWVKFRYDTS-NH2	1076
JB10324	1931	E	Ac-KWFICGMRDMDKGTMSCIWVKFRYDTS-NH2	1155
JB10325	>50000		Ac-ICGMRDMDKGTMSCIWVKFRYDTS-NH2	1219
JB10326	>10000		Ac-RDMKGTMSCIWVKFRYDTS-NH2	1220
JB10326	>50000		Ac-RDMKGTMSCIWVKFRYDTS-NH2	1221
JB10327	>50000		Ac-SGASRYKWFICGMRDMDKGTMS-NH2	1222
JB10328	>50000		Ac-SRYKWFICGMRDMDKGTMSCIW-NH2	1223
JB10329	4574	E	Ac-KWFICGMRDMDKGTMSCIWVKF-NH2	1156
JB10329	9396	F	Ac-KWFICGMRDMDKGTMSCIWVKF-NH2	1203
JB10330	>50000		Ac-ICGMRDMDKGTMSCIWVKFRYD-NH2	1224
JB10331	>10001		Ac-MRDMDKGTMSCIWVKFRYDTS-NH2	1225
JB10332	29746	G	Ac-SRYKWFICGMRDMDKGTMSCIW-NH2	1206
JB10333	18840	G	Ac-KWFICGMRDMDKGTMSCIWVKF-NH2	1207
JB10334	>10002		Ac-CGMRDMDKGTMSCIWVKFRYD-NH2	1227
JB10409	6413	F	Ac-SGASRYKWFESGMRDMDKGTMSIWWVKFRYDTS-NH2	1204

도면34b

시험 번호	ICS0 [mm]	친화도 클래스	시험 시열	시험 번호
JB10410	24801	G	Ac-SGASRYKWFSG-Nle-RD-Nle-KGT-Nle-SSVWVKF-RYDTS-NH2	1208
JB10411	685	D	Ac-SGASRYKWFICG-Nle-RD-Nle-KGT-Nle-SCVWVKF-RYDTS-NH2	1104
JB10412	16103	G	Ac-KWFICG-Nle-RD-Nle-KGT-Nle-SCVWVKF-NH2	1209
JB10413	>50000		Ac-KWFSGMRDMKGTMISSVWVKF-NH2	1228
JB10414	5693	F	Ac-KWFSG-Nle-RD-Nle-KGT-Nle-SSVWVKF-NH2	1205
JB10415	50	A	Ac-SRYKWFICGMRDMKGTMSCVWVKF-NH2	1003
JB10416	187	C	Ac-SRYKWFICG-Nle-RD-Nle-KGT-Nle-SCVWVKF-NH2	1077
JB10417	>50000		Ac-SRYKWFSGMRDMKGTMISSVWVKF-NH2	1229
JB10418	43941	G	Ac-SRYKWF SG-Nle-RD-Nle-KGT-Nle-SS VVVKF-NH2	1210
JB10435*	31732	G	Ac-RKRDVSGKMICWSGSGSKWFCADMMITYSYVT-NH2	1211
JB10436*	45925	G	Ac-RWSGKSTYSICDAMVRRMGKCFISFGWTDVYK-NH2	1212
JB10437	60	B	Ac-ARYKWFICGMRDMKGTMSCVWVKF-NH2	1048
JB10438	194	C	Ac-SAYKWFICGMRDMKGTMSCVWVKF-NH2	1078
JB10439	291	D	Ac-SRAKWFICGMRDMKGTMSCVWVKF-NH2	1105
JB10440	393	D	Ac-SRYAWFICGMRDMKGTMSCVWVKF-NH2	1106
JB10441	>5000		Ac-SRYAEFCGMRDMKGTMSCVWVKF-NH2	1230
JB10442	>5000		Ac-SRYKWAICGMRDMKGTMSCVWVKF-NH2	1231
JB10443	2861	E	Ac-SRYKWF AGMRDMKGTMSC VVVKF-NH2	1157
JB10444	18	A	Ac-SRYKWFICAMRDMKGTMSCVWVKF-NH2	1004
JB10444	31	A	Ac-SRYKWFICAMRDMKGTMSCVWVKF-NH2	1005
JB10445	760	D	Ac-SRYKWFICGARDMKGTMSCVWVKF-NH2	1107
JB10446	152	C	Ac-SRYKWFICGMADMKGTMSCVWVKF-NH2	1079
JB10447	3249	E	Ac-SRYKWFICGMARDAKGTMSCVWVKF-NH2	1158
JB10448	315	D	Ac-SRYKWFICGMARDAGTMSCVWVKF-NH2	1108
JB10449	104	C	Ac-SRYKWFICGMADMAGTMSCVWVKF-NH2	1080
JB10450	1061	E	Ac-SRYKWFICGMRDMKATMSCVWVKF-NH2	1159
JB10451	131	C	Ac-SRYKWFICGMRDMKATMSCVWVKF-NH2	1081
JB10452	313	D	Ac-SRYKWFICGMRDMKGTASCVWVKF-NH2	1109
JB10453	343	D	Ac-SRYKWFICGMRDMKGTMACVWVKF-NH2	1110
JB10454	4963	E	Ac-SRYKWF CGMRDMKGTMSA VVVKF-NH2	1160
JB10455	99	B	Ac-SRYKWFICGMRDMKGTMSCVWVKF-NH2	1049
JB10456	>5000		Ac-SRYKWFICGMRDMKGTMSCVAVKF-NH2	1232

도면34c

사물 번호	IC50 [nm]	친화도 클래스	서열	서열 번호
JB10457	2896	E	Ac-SRYKWEICGMRDmKGTmSCjVwVKF-NH2	1161
JB10458	148	C	Ac-SRYKWEICGMRDmKGTmSCjVwVAF-NH2	1082
JB10459	150	C	Ac-SRYKWEICGMRDmKGTmSCjVwVKA-NH2	1083
JB10460	88	B	Ac-RYKWEICGMRDmKGTmSCjVwVKF-NH2	1050
JB10461	503	D	Ac-YKWEICGMRDmKGTmSCjVwVKF-NH2	1111
JB10462	>5000		Ac-SRYKWEICGMRDmKGTmSCjVwVKF-NH2	1233
JB10463	>5000		Ac-SRYKWEICGMRDmKGTmSCjVwVKF-NH2	1234
JB10464	>5000		Ac-SRYKWEICGMRDmKGTmSCjVwVKF-NH2	1235
JB10465	>5000		Ac-SRYKWEICGMRDmKGTmSCjVwVKF-NH2	1236
JB10466	>5000		Ac-SRYKWEICGMRDmKGTmSCjVwVKF-NH2	1237
JB10467	>5000		Ac-SRYKWEICGMRDmKGTmSCjVwVKF-NH2	1238
JB10468	>5000		Ac-SRYKWEICGMRDmKGTmSCjVwVKF-NH2	1239
JB10469	>5000		Ac-SRYKWEICGMRDmKGTmSCjVwVKF-NH2	1240
JB10470	1472	E	Ac-SRYKWEICGMRDmKGTmSCjVwVKF-NH2	1162
JB10617	489	D	Ac-SRYKWEICGMRDmKGTmSCjVwVKF-NH2	1112
JB10618	2073	E	Ac-SRYKWEICGMRDmKGTmSCjVwVKF-NH2	1163
JB10619	>5000		Ac-SRYKWEICGMRDmKGTmSCjVwVKF-NH2	1241
JB10620	>5000		Ac-SRYKWEICGMRDmKGTmSCjVwVKF-NH2	1242
JB10623	>5000		Ac-SRYKWEICGMRDmKGTmSCjVwVKF-NH2	1243
JB10625	>5000		Ac-SRYKWEICGMRDmKGTmSCjVwVKF-NH2	1244
JB10626	1078	E	Ac-SRYKWEICGMRDmKGTmSCjVwVKF-NH2	1164
JB10627	2169	E	Ac-SRYKWEICGMRDmKGTmSCjVwVKF-NH2	1165
JB10628	3611	E	Ac-SRYKWEICGMRDmKGTmSCjVwVKF-NH2	1166
JB10629	4076	E	Ac-SRYKWEICGMRDmKGTmSCjVwVKF-NH2	1167
JB10631	343	D	Ac-SRYKWEICGMRDmKGTmSCjVwVKF-NH2	1113
JB10632	>5000		Ac-SRYKWEICGMRDmKGTmSCjVwVKF-NH2	1245
JB10633	2131	E	Ac-SRYKWEICGMRDmKGTmSCjVwVKF-NH2	1168
JB10634	61	B	Ac-SRYKWEICGMRDmKGTmSCjVwVKF-NH2	1051
JB10635	433	D	Ac-SRYKWEICGMRDmKGTmSCjVwVKF-NH2	1114
JB10637	3590	E	Ac-SRYKWEICGMRDmKGTmSCjVwVKF-NH2	1169
JB10638	>5000		Ac-SRYKWEICGMRDmKGTmSCjVwVKF-NH2	1246
JB10639	1220	E	Ac-SRYKWEICGMRDmKGTmSCjVwVKF-NH2	1170

도면34d

사물 번호	IC50 [nm]	전위도 클래스	서열	서열 번호
JBT0640	3470	E	Ac-SRYKWF(CGMRD)MKGTMSC VWVKF-NH2	1171
JBT0641	>5000		Ac-SRYKWF(CGMRD)MKGTMSC VWVKF-NH2	1247
JBT0642	>5000		Ac-SRYKWF(CGPRD)MKGTMSC VWVKF-NH2	1248
JBT0643	23	A	Ac-SRYKWF(CGMPD)MKGTMSC VWVKF-NH2	1006
JBT0644	2873	E	Ac-SRYKWF(CGMRP)MKGTMSC VWVKF-NH2	1172
JBT0645	165	C	Ac-SRYKWF(CGMRPK)GTMSC VWVKF-NH2	1084
JBT0646	3169	E	Ac-SRYKWF(CGMRD)PKGTMSC VWVKF-NH2	1173
JBT0647	>5000		Ac-SRYKWF(CGMRD)PKGTMSC VWVKF-NH2	1249
JBT0648	3682	E	Ac-SRYKWF(CGMRD)MKGPMSC VWVKF-NH2	1174
JBT0649	2989	E	Ac-SRYKWF(CGMRD)MKGTPSC VWVKF-NH2	1175
JBT0650	>5000		Ac-SRYKWF(CGMRD)MKGTMPG VWVKF-NH2	1250
JBT0790	255	D	H-GSSRYKWF(CGMRD)MKGTMSC VWVKF-OH	1115
JBT1416	39	A	Ac-DRYKWF(CGMRD)MKGTMSC VWVKF-NH2	1007
JBT1417	344	D	Ac-SDYKWF(CGMRD)MKGTMSC VWVKF-NH2	1116
JBT1418	1469	E	Ac-SRDKWF(CGMRD)MKGTMSC VWVKF-NH2	1176
JBT1419	536	D	Ac-SRYDWF(CGMRD)MKGTMSC VWVKF-NH2	1117
JBT1420	>5000		Ac-SRYKDH(CGMRD)MKGTMSC VWVKF-NH2	1251
JBT1421	>5000		Ac-SRYKWDC(GMRD)MKGTMSC VWVKF-NH2	1252
JBT1422	>5000		Ac-SRYKWF(CGMRD)MKGTMSC VWVKF-NH2	1253
JBT1423	4671	E	Ac-SRYKWF(CGDRD)MKGTMSC VWVKF-NH2	1177
JBT1424	>5000		Ac-SRYKWF(CGMID)MKGTMSC VWVKF-NH2	1254
JBT1425	101	C	Ac-SRYKWF(CGMID)MKGTMSC VWVKF-NH2	1085
JBT1426	17	A	Ac-SRYKWF(CGMID)DKGTMSC VWVKF-NH2	1008
JBT1427	87	B	Ac-SRYKWF(CGMID)DKGTMSC VWVKF-NH2	1052
JBT1428	478	D	Ac-SRYKWF(CGMID)MKGDMSC VWVKF-NH2	1118
JBT1429	107	C	Ac-SRYKWF(CGMID)MKGTDSC VWVKF-NH2	1086
JBT1430	265	D	Ac-SRYKWF(CGMID)MKGTMDC VWVKF-NH2	1119
JBT1431	>5000		Ac-SRYKWF(CGMID)MKGTMSC DWVKF-NH2	1255
JBT1432	>5000		Ac-SRYKWF(CGMID)MKGTMSC VDVKF-NH2	1256
JBT1433	>5000		Ac-SRYKWF(CGMID)MKGTMSC VWDKF-NH2	1257
JBT1434	515	D	Ac-SRYKWF(CGMID)MKGTMSC VWVDF-NH2	1120
JBT1435	34	A	Ac-SRYKWF(CGMID)MKGTMSC VWVKD-NH2	1009

도면34e

사물 번호	IC50 [nm]	진화도 클래스	서열	서열 번호
JB11436	54	B	Ac-IRYKWFICGMRDMDKGTMSQVWVKF-NH2	1053
JB11437	33	A	Ac-SFYKWFICGMRDMDKGTMSQVWVKF-NH2	1010
JB11438	40	A	Ac-SRFKWFICGMRDMDKGTMSQVWVKF-NH2	1011
JB11439	572	D	Ac-SRYFWFICGMRDMDKGTMSQVWVKF-NH2	1121
JB11440	>5000		Ac-SRYKEFICGMRDMDKGTMSQVWVKF-NH2	1258
JB11441	>5000		Ac-SRYKWFICGMRDMDKGTMSQVWVKF-NH2	1259
JB11442	2701	E	Ac-SRYKWFICGERDMDKGTMSQVWVKF-NH2	1178
JB11443	1218	E	Ac-SRYKWFICGMDFMDKGTMSQVWVKF-NH2	1179
JB11444	>5000		Ac-SRYKWFICGMDFMDKGTMSQVWVKF-NH2	1260
JB11445	43	A	Ac-SRYKWFICGMRDMDKGTMSQVWVKF-NH2	1012
JB11446	69	B	Ac-SRYKWFICGMRDMDKGTMSQVWVKF-NH2	1054
JB11447	344	D	Ac-SRYKWFICGMRDMDKGTMSQVWVKF-NH2	1122
JB11448	296	D	Ac-SRYKWFICGMRDMDKGTMSQVWVKF-NH2	1123
JB11449	23	A	Ac-SRYKWFICGMRDMDKGTMSQVWVKF-NH2	1013
JB11450	475	D	Ac-SRYKWFICGMRDMDKGTMSQVWVKF-NH2	1124
JB11451	236	C	Ac-SRYKWFICGMRDMDKGTMSQVWVKF-NH2	1087
JB11452	546	D	Ac-SRYKWFICGMRDMDKGTMSQVWVKF-NH2	1125
JB11453	>5000		Ac-SRYKWFICGMRDMDKGTMSQVWVKF-NH2	1261
JB11454	>5000		Ac-SRYKWFICGMRDMDKGTMSQVWVKF-NH2	1262
JB11455	39	A	Ac-GRYKWFICGMRDMDKGTMSQVWVKF-NH2	1014
JB11456	265	D	Ac-SGYKWFICGMRDMDKGTMSQVWVKF-NH2	1126
JB11457	1866	E	Ac-SRGKWFICGMRDMDKGTMSQVWVKF-NH2	1180
JB11458	430	D	Ac-SRYGWFCGMRDMDKGTMSQVWVKF-NH2	1127
JB11459	>5000		Ac-SRYKWFICGMRDMDKGTMSQVWVKF-NH2	1263
JB11460	>5000		Ac-SRYKWFICGMRDMDKGTMSQVWVKF-NH2	1264
JB11461	2099	E	Ac-SRYKWFICGGRDMDKGTMSQVWVKF-NH2	1181
JB11462	370	D	Ac-SRYKWFICGMGDMDKGTMSQVWVKF-NH2	1128
JB11463	682	D	Ac-SRYKWFICGMRCMDKGTMSQVWVKF-NH2	1129
JB11464	150	C	Ac-SRYKWFICGMRDGKGTMSQVWVKF-NH2	1088
JB11465	50	A	Ac-SRYKWFICGMRDMDKGTMSQVWVKF-NH2	1015
JB11466	85	B	Ac-SRYKWFICGMRDMDKGTMSQVWVKF-NH2	1055
JB11467	290	D	Ac-SRYKWFICGMRDMDKGTMSQVWVKF-NH2	1130

34f면도

시험 번호	IC50 [μm]	진화도 클래스	시험	시험 번호
JB11468	778	D	Ac-SRYKWF(CGMRDMKGTMSC)YVVVKF-NH2	1131
JB11469	2366	E	Ac-SRYKWF(CGMRDMKGTMSC)YVVVKF-NH2	1182
JB11470	>5000		Ac-SRYKWF(CGMRDMKGTMSC)YGVKF-NH2	1265
JB11471	>5000		Ac-SRYKWF(CGMRDMKGTMSC)YVWGF-NH2	1266
JB11472	158	C	Ac-SRYKWF(CGMRDMKGTMSC)YVVVKF-NH2	1089
JB11473	176	C	Ac-SRYKWF(CGMRDMKGTMSC)YVVVKF-NH2	1090
JB11474	31	A	Ac-SRYKWF(CGMRDMKGTMSC)YVVVKF-NH2	1016
JB11475	69	B	Ac-SRYKWF(CGMRDMKGTMSC)YVVVKF-NH2	1056
JB11476	282	D	Ac-SRYKWF(CGMRDMKGTMSC)YVVVKF-NH2	1132
JB11477	>5000		Ac-SRYKWF(CGMRDMKGTMSC)YVVVKF-NH2	1267
JB11478	162	C	Ac-SRYKWF(CGMRDMKGTMSC)YVVVKF-NH2	1091
JB11479	1110	E	Ac-SRYKWF(CGMRDMKGTMSC)YVVVKF-NH2	1183
JB11480	392	D	Ac-SRYKWF(CGMRDMKGTMSC)YVVVKF-NH2	1133
JB11481	20	A	Ac-SRYKWF(CGMRDMKGTMSC)YVVVKF-NH2	1017
JB11482	1354	E	Ac-SRYKWF(CGMRDMKGTMSC)YVVVKF-NH2	1184
JB11483	59	B	Ac-SRYKWF(CGMRDMKGTMSC)YVVVKF-NH2	1057
JB11484	520	D	Ac-SRYKWF(CGMRDMKGTMSC)YVVVKF-NH2	1134
JB11485	67	B	Ac-SRYKWF(CGMRDMKGTMSC)YVVVKF-NH2	1058
JB11486	54	B	Ac-SRYKWF(CGMRDMKGTMSC)YVVVKF-NH2	1059
JB11487	434	D	Ac-SRYKWF(CGMRDMKGTMSC)YVVVKF-NH2	1135
JB11488	>5000		Ac-SRYKWF(CGMRDMKGTMSC)YVVVKF-NH2	1268
JB11489	>5000		Ac-SRYKWF(CGMRDMKGTMSC)YVVVKF-NH2	1269
JB11490	>5000		Ac-SRYKWF(CGMRDMKGTMSC)YVVVKF-NH2	1270
JB11491	335	D	Ac-SRYKWF(CGMRDMKGTMSC)YVVVKF-NH2	1136
JB11492	38	A	Ac-SRYKWF(CGMRDMKGTMSC)YVVVKF-NH2	1018
JB11493	51	B	Ac-SRYKWF(CGMRDMKGTMSC)YVVVKF-NH2	1060
JB11494	679	D	Ac-SRYKWF(CGMRDMKGTMSC)YVVVKF-NH2	1137
JB11495	729	D	Ac-SRYKWF(CGMRDMKGTMSC)YVVVKF-NH2	1138
JB11496	>5000		Ac-SRYKWF(CGMRDMKGTMSC)YVVVKF-NH2	1271
JB11497	72	B	Ac-SRYKWF(CGMRDMKGTMSC)YVVVKF-NH2	1061
JB11498	>5000		Ac-SRYKWF(CGMRDMKGTMSC)YVVVKF-NH2	1272
JB11499	636	D	Ac-SRYKWF(CGMRDMKGTMSC)YVVVKF-NH2	1139

34g면도

시험 번호	IC50 [nm]	전파도 클래스	시험	시험 번호
JB11500	68	B	Ac-SRYKWF(CGMRDMLDMKGTMSC)VWVKF-NH2	1062
JB11501	3449	E	Ac-SRYKWF(CGMRDMLMKGTMSC)VWVKF-NH2	1185
JB11502	38	A	Ac-SRYKWF(CGMRDLKGTMSC)VWVKF-NH2	1019
JB11503	54	B	Ac-SRYKWF(CGMRDMLGTMSC)VWVKF-NH2	1063
JB11504	757	D	Ac-SRYKWF(CGMRDMLTMSC)VWVKF-NH2	1140
JB11505	155	C	Ac-SRYKWF(CGMRDMLKGTMSC)VWVKF-NH2	1092
JB11506	57	B	Ac-SRYKWF(CGMRDMLKGTLSG)VWVKF-NH2	1064
JB11507	411	D	Ac-SRYKWF(CGMRDMLKGTMLC)VWVKF-NH2	10141
JB11508	216	C	Ac-SRYKWF(CGMRDMLKGTMSC)JLVVKF-NH2	1093
JB11509	>5000		Ac-SRYKWF(CGMRDMLKGTMSC)VLVKF-NH2	1273
JB11510	221	C	Ac-SRYKWF(CGMRDMLKGTMSC)VWLKFNH2	1094
JB11511	330	D	Ac-SRYKWF(CGMRDMLKGTMSC)VWVLF-NH2	1142
JB11512	18	A	Ac-SRYKWF(CGMRDMLKGTMSC)VWVKL-NH2	1020
JB11513	56	B	Ac-SRYKWF(CGMRDMLKGTMSC)VWVKF-NH2	1065
JB11514	92	B	Ac-SRYKWF(CGMRDMLKGTMSC)VWVKF-NH2	1066
JB11515	411	D	Ac-SRYKWF(CGMRDMLKGTMSC)VWVKF-NH2	1143
JB11516	>5000		Ac-SRYKWF(CGMRDMLKGTMSC)VWVKF-NH2	1274
JB11517	>5000		Ac-SRYKWF(CGMRDMLKGTMSC)VWVKF-NH2	1275
JB11518	50	A	Ac-SRYKWF(CGMRDMLKGTMSC)VWVKF-NH2	1021
JB11519	1825	E	Ac-SRYKWF(CGMRDMLKGTMSC)VWVKF-NH2	1186
JB11520	202	C	Ac-SRYKWF(CGMRDMLKGTMSC)VWVKF-NH2	1095
JB11521	226	C	Ac-SRYKWF(CGMRDMLKGTMSC)VWVKF-NH2	1096
JB11522	92	B	Ac-SRYKWF(CGMRDMLKGTMSC)VWVKF-NH2	1067
JB11523	35	A	Ac-SRYKWF(CGMRDMLKGTMSC)VWVKF-NH2	1022
JB11524	512	D	Ac-SRYKWF(CGMRDMLKGTMSC)VWVKF-NH2	1144
JB11525	56	B	Ac-SRYKWF(CGMRDMLKGTMSC)VWVKF-NH2	1068
JB11526	80	B	Ac-SRYKWF(CGMRDMLKGTSSC)VWVKF-NH2	1069
JB11527	190	C	Ac-SRYKWF(CGMRDMLKGTMSC)SWVKF-NH2	1097
JB11528	>5000		Ac-SRYKWF(CGMRDMLKGTMSC)VSVKF-NH2	1276
JB11529	>5000		Ac-SRYKWF(CGMRDMLKGTMSC)VWSKF-NH2	1277
JB11530	83	B	Ac-SRYKWF(CGMRDMLKGTMSC)VWVSF-NH2	1070
JB11531	63	B	Ac-SRYKWF(CGMRDMLKGTMSC)VWVKS-NH2	1071

도면34h

시험 번호	IC50 [nm]	원위도 클래스	시험	시험 번호
JB11532	54	B	Ac-PRYKWF(CGMRDMKGTMSC)VVVKF-NH2	1072
JB11533	263	D	Ac-SPYKWF(CGMRDMKGTMSC)VVVKF-NH2	1145
JB11534	2398	E	Ac-SRPKWF(CGMRDMKGTMSC)VVVKF-NH2	1187
JB11535	>5000		Ac-SRYPWF(CGMRDMKGTMSC)VVVKF-NH2	1278
JB11536	>5000		Ac-SRYPWF(CGMRDMKGTMSC)VVVKF-NH2	1279
JB11537	>5000		Ac-SRYKWF(CGMRDMKGTMSC)VVVKF-NH2	1280
JB11538	>5000		Ac-SRYKWF(CGMRDMKGTMSC)VVVKF-NH2	1281
JB11539	>5000		Ac-SRYKWF(CGMRDMKGTMSC)VVVKF-NH2	1282
JB11540	>5000		Ac-SRYKWF(CGMRDMKGTMSC)VVVKF-NH2	1283
JB11541	29	A	Ac-SRYKWF(CGMRDMKGTMSC)VVVKF-NH2	1023
JB11542	1052	E	Ac-SRYKWF(CGMRDMKGTMSC)VVVKF-NH2	1188
JB11543	202	C	Ac-SRYKWF(CGMRDMKGTMSC)VVVKF-NH2	1098
JB11544	40	A	H-SRYKWF(CGMRDMKGTMSC)VVVKF-NH2	1024
JB11545	239	C	H-SRYKWF(CGMRDMKGTMSC)VVVKF-NH2	1099
JB11546	>5000		Ac-SRYKWF(CGMRDMKGTMSC)VVVKF-NH2	1284
JB11547	>5000		Ac-SRYKWF(CGMRDMKGTMSC)VVVKF-NH2	1285
JB11548	>5000		Ac-SRYKWF(CGMRDMKGTMSC)VVVKF-NH2	1286
JB11549	1736	E	Ac-SRYKWF(CGMRDMKGTMSC)VVVKF-NH2	1189
JB11550	1086	E	Ac-SRYKWF(CGMRDMKGTMSC)VVVKF-NH2	1190
JB11551	682	D	Ac-SRYKWF(CGMRDMKGTMSC)VVVKF-NH2	1146
JB11552	400	D	Ac-SRYKWF(CGMRDMKGTMSC)VVVKF-NH2	1147
JB11553	292	D	Ac-SRYKWF(CGMRDMKGTMSC)VVVKF-NH2	1148
JB11554	>5000		Ac-SRYKWF(CGMRDMKGTMSC)VVVKF-NH2	1287
JB11555	3382	E	Ac-SRYKWF(CGMRDMKGTMSC)VVVKF-NH2	1191
JB11556	>5000		Ac-SRYKWF(CGMRDMKGTMSC)VVVKF-NH2	1288
JB11557	60	B	H-RYKWF(CGMRDMKGTMSC)VVVKF-NH2	173
JB11558	975	D	H-YKWF(CGMRDMKGTMSC)VVVKF-NH2	1149
JB11559	286	D	Ac-SRYKWF(CGMRDMKGTMSC)VVVKF-NH2	1150
JB11560	>5000		Ac-SRYKWF(CGMRDMKGTMSC)VVVKF-NH2	1289
JB11561	3031	E	Ac-SRYKWF(CGMRDMKGTMSC)VVVKF-NH2	1192
JB11562	1783	E	Ac-SRYKWF(CGMRDMKGTMSC)VVVKF-NH2	1193
JB11563	1821	E	Ac-SRYKWF(CGMRDMKGTMSC)VVVKF-NH2	1194

34면도

시열 번호	IC50 [nm]	친화도 클래스	시열	시열 번호
JB11564	170	C	Ac-SRYKWF(CGPRDMKGTMSC)VWVKF-NH2	1100
JB11565	1712	E	Ac-SRYKWF(CGSRDMKGTMSC)VWVKF-NH2	1195
JB11566	367	D	Ac-SRYKWF(CGMRDdKGTMSC)VWVKF-NH2	1151
JB11567	212	C	Ac-SRYKWF(CGMRDdKGTMSC)VWVKF-NH2	1101
JB11568	73	B	Ac-SRYKWF(CGMRDdKGTMSC)VWVKF-NH2	1074
JB11569	155	C	Ac-SRYKWF(CGMRDdKGTMSC)VWVKF-NH2	1102
JB11570	47	A	Ac-SRYKWF(CGMRDdKGTMSC)VWVKF-NH2	1025
JB11571	1320	E	Ac-SRYKWF(CGMRDdKGTMSC)VWVKF-NH2	1196
JB11572	650	D	Ac-SRYKWF(CGMRDdKGTMSC)VWVKF-NH2	1152
JB11573	1154	E	Ac-SRYKWF(CGMRDdKGTMSC)VWVKF-NH2	1197
JB11574	350	D	Ac-SRYKWF(CGMRDdKGTMSC)VWVKF-NH2	1153
JB11575	2377	E	Ac-SRYKWF(CGMRDdKGTMSC)VWVKF-NH2	1198
JB11576	1004	E	Ac-SRYKWF(CGMRDdKGTMSC)VWVKF-NH2	1199
JB11577	1121	E	Ac-SRYKWF(CGMRDdKGTMSC)VWVKF-NH2	1200
JB11578	633	D	Ac-SRYKWF(CGMRDdKGTMSC)VWVKF-NH2	1154
JB11735	9	A	Ac-SMYKWH(CGMRDMKGTYSQ)VWVKF-NH2	1026
JB11772	11	A	Ac-FHYKWH(CGMRDMKGTYSQ)VWVKF-NH2	1027
JB11808	12	A	Ac-SYYKWH(CGMRDMKGTYSQ)VWVKF-NH2	1028
JB11811	11	A	Ac-SYYKWH(CGMRDMKGTYSQ)VWVKF-NH2	1029
JB11812	11	A	Ac-SYYKWH(CGMRDMKGTYSQ)VWVKF-NH2	1030
JB11813	9	A	Ac-SYYKWH(CGMRDMKGTYSQ)VWVKF-NH2	1031
JB11815	10	A	Ac-SYYKWH(CGMRDMKGTYSQ)VWVKF-NH2	1032
JB11816	9	A	Ac-SYYKWH(CGMRDMKGTYSQ)VWVKF-NH2	1033
JB11817	9	A	Ac-SYYKWH(CGMRDMKGTYSQ)VWVKF-NH2	1034
JB11821	11	A	Ac-SYYKWH(CGMRDMKGTYSQ)VWVKF-NH2	1035
JB11822	18	A	Ac-SYYKWH(CGMRDMKGTYSQ)VWVKF-NH2	1036
JB11825	11	A	Ac-SYYKWH(CGMRDMKGTYSQ)VWVKF-NH2	1037
JB11826	11	A	Ac-SYYKWH(CGMRDMKGTYSQ)VWVKF-NH2	1038
JB11828	22	A	Ac-SHYKWH(CGMRDMKGTYSQ)VWVKF-NH2	1039
JB11829	8	A	Ac-FYYKWH(CGMRDMKGTYSQ)VWVKF-NH2	1040
JB11830	10	A	Ac-SYYKWH(CGMRDMKGTYSQ)VWVKF-NH2	1041
JB11831	13	A	Ac-SHYKWH(CGMRDMKGTYSQ)VWVKF-NH2	1042

도면34j

사물 번호	IC50 [nm]	진화도 클래스	서열	서열 번호
JB11832	11	A	Ac-HYYKWH CGMRDMKGTMSC VWVKF-NH2	1043
JB11837	10	A	Ac-SYYKWH CAMRDMKGTMT C VWVKF-NH2	1044
JB11840	11	A	Ac-SYYKWH CGMRDMKGTMSC VWVLF-NH2	1045
JB11842	9	A	Ac-SHYKWH CAMRDMKGTMSC AWVKF-NH2	1046

도면35

사물 번호	EC50(nM)	시열	시열 번호
JB10124	1.8	비오터널-Tids-SGASRYKWF(CMRDMKGTMSC VWKFRYDJS-NH2	1290
JB10659	2.1	비오터널-Tids-SRYKWF(CMRDMKGTMSC VWVKF-NH2	1291

도면36a

시료 번호	IC50 [nM]	친화도 클래스	서열	서열 번호
JB10122	3084	E	Ac-SGYASFP1AVQ1HVSKRSEKEMALARLYYKTS-NH2	2002
JB10221	1412	E	Ac-KKSGYASFP1AVQ1HVSKRSEKEMALARLYYKTSKK-NH2	2003
JB10222*	36272	G	Ac-MKSRSLG1AYFAKHISLEVLQTRKVAAPYY-NH2	2127
JB10223*	>50000		Ac-KMQLRVYASTAHSRYLLGSSLFPKYAEVKA-NH2	2297
JB10224	>50000		Ac-KKSGYASFP1AVQ1HVSKRSEKEMALARLYYKK-NH2	2298
JB10225	25395	G	Ac-KKSGYASFP1AVQ1HVSKRSEKEMALARKK-NH2	2128
JB10226	>50000		Ac-KKSGYASFP1AVQ1HVSKRSEKEMAKK-NH2	2299
JB10227	>50000		Ac-KKSGYASFP1AVQ1HVSKRSEKEMAKK-NH2	2300
JB10228	5436	F	Ac-KKASFP1AVQ1HVSKRSEKEMALARLYYKTSKK-NH2	2016
JB10229	16971	G	Ac-KKPLAVQ1HVSKRSEKEMALARLYYKTSKK-NH2	2129
JB10230	>50000		Ac-KKVVQ1HVSKRSEKEMALARLYYKTSKK-NH2	2301
JB10231	>50000		Ac-KKHVSKRSEKEMALARLYYKTSKK-NH2	2302
JB10232	>50000		Ac-KKGYASFP1AVQ1HVSKRSEKEMKK-NH2	2303
JB10233	>50000		Ac-KKYASFP1AVQ1HVSKRSEKEMAKK-NH2	2304
JB10234	>50000		Ac-KKVVQ1HVSKRSEKEMALARLYYKK-NH2	2305
JB10235	>50000		Ac-KKQ1HVSKRSEKEMALARLYYKTKK-NH2	2306
JB10236	>50000		Ac-KKQ1HVSKRSEKEMALARLYYKTSKK-NH2	2307
JB10237	>50000		Ac-KKSGYASFP1AVQ1HVSKRSEK-EK-NH2	2308
JB10359	>50000		Ac-ASFP1AVQ1HVSKRSEKEMA-NH2	2309
JB10360	>50000		Ac-SFPLAVQ1HVSKRSEKEMA-NH2	2310
JB10361	>50000		Ac-FPLAVQ1HVSKRSEKEMA-NH2	2311
JB10362	>50000		Ac-ASFP1AVQ1HVSKRSEKEMA-NH2	2312
JB10363	>50000		Ac-ASFP1AVQ1HVSKRSEK-E-NH2	2313
JB10364	>50000		Ac-ASFP1AVQ1HVSKRSEKEMAL-NH2	2314
JB10365	>50000		Ac-ASFP1AVQ1HVSKRSEKEMAL-A-NH2	2315
JB10366	>50000		Ac-ASFP1AVQ1HVSKRSEKEMALAR-NH2	2316
JB10367	>50000		Ac-ASFP1AVQ1HVSKRSEKEMALAR-NH2	2317
JB10368	27346	G	Ac-ASFP1AVQ1HVSKRSEKEMALARLY-NH2	2130
JB10369	5107	F	Ac-ASFP1AVQ1HVSKRSEKEMALARLYY-NH2	2017
JB10370	>50000		Ac-YASFP1AVQ1HVSKRSEKEMA-NH2	2318
JB10371	>50000		Ac-GYASFP1AVQ1HVSKRSEKEMA-NH2	2319
JB10660	2645	E	Ac-AGYASFP1AVQ1HVSKRSEKEMALARLYYKTS-NH2	2004

도면36b

사물 번호	IC50 [nM]	친화도 클래스	서열	서열 번호
JB10661	1383	E	Ac-SAYASFP1.AVQ1.HVSKRSKEMAL.ARL.YYKTS-NH2	2005
JB10662	13759	G	Ac-SGAASFP1.AVQ1.HVSKRSKEMAL.ARL.YYKTS-NH2	2131
JB10664	2739	E	Ac-SGYAASFP1.AVQ1.HVSKRSKEMAL.ARL.YYKTS-NH2	2006
JB10665	25704	G	Ac-SGYASAP1.AVQ1.HVSKRSKEMAL.ARL.YYKTS-NH2	2132
JB10666	915	D	Ac-SGYASFA1.AVQ1.HVSKRSKEMAL.ARL.YYKTS-NH2	2001
JB10667	9314	F	Ac-SGYASFPAAVQ1.HVSKRSKEMAL.ARL.YYKTS-NH2	2018
JB10669	33021	G	Ac-SGYASFP1.AAQ1.HVSKRSKEMAL.ARL.YYKTS-NH2	2133
JB10670	2506	E	Ac-SGYASFP1.AV1.HVSKRSKEMAL.ARL.YYKTS-NH2	2007
JB10671	5836	F	Ac-SGYASFP1.AVQAHVSKRSKEMAL.ARL.YYKTS-NH2	2019
JB10672	38327	G	Ac-SGYASFP1.AVQ1.AVSKRSKEMAL.ARL.YYKTS-NH2	2134
JB10673	16425	G	Ac-SGYASFP1.AVQ1.HVASKRSKEMAL.ARL.YYKTS-NH2	2135
JB10674	1173	E	Ac-SGYASFP1.AVQ1.HVAKRSKEMAL.ARL.YYKTS-NH2	2008
JB10675	18317	G	Ac-SGYASFP1.AVQ1.HVSAKRSKEMAL.ARL.YYKTS-NH2	2136
JB10676	37412	G	Ac-SGYASFP1.AVQ1.HVSKASKEMAL.ARL.YYKTS-NH2	2137
JB10677	1905	E	Ac-SGYASFP1.AVQ1.HVSKRAKEMAL.ARL.YYKTS-NH2	2009
JB10678	4071	E	Ac-SGYASFP1.AVQ1.HVSKRSAEMAL.ARL.YYKTS-NH2	2010
JB10679	6196	F	Ac-SGYASFP1.AVQ1.HVSKRSKAMAL.ARL.YYKTS-NH2	2020
JB10680	20935	G	Ac-SGYASFP1.AVQ1.HVSKRSKEAAL.ARL.YYKTS-NH2	2138
JB10682	10271	G	Ac-SGYASFP1.AVQ1.HVSKRSKEMAAAL.ARL.YYKTS-NH2	2139
JB10684	4567	E	Ac-SGYASFP1.AVQ1.HVSKRSKEMAL.AAL.YYKTS-NH2	2011
JB10685	9134	F	Ac-SGYASFP1.AVQ1.HVSKRSKEMAL.ARAYYKTS-NH2	2021
JB10686	13474	G	Ac-SGYASFP1.AVQ1.HVSKRSKEMAL.ARL.AYKTS-NH2	2140
JB10687	11783	G	Ac-SGYASFP1.AVQ1.HVSKRSKEMAL.ARL.YYAKTS-NH2	2141
JB10688	4196	E	Ac-SGYASFP1.AVQ1.HVSKRSKEMAL.ARL.YYATIS-NH2	2012
JB10689	3127	E	Ac-SGYASFP1.AVQ1.HVSKRSKEMAL.ARL.YYKAS-NH2	2013
JB10690	3000	E	Ac-SGYASFP1.AVQ1.HVSKRSKEMAL.ARL.YYKTA-NH2	2014
JB10788	16205	G	H-GSSGYASFP1.AVQ1.HVSKRSKEMAL.ARL.YYKTS-OH	2142
JB11579	2593	E	Ac-GYASFP1.AVQ1.HVAKRSKEMA-NH2	2015
JB11580	>50000		Ac-GYASFA1.SVQ1.HVSKRSKEMA-NH2	2320
JB11581	>50000		Ac-GYASFA1.AVQ1.HVAKRSKEMA-NH2	2321
JB11582	5841	F	Ac-GYASFP1.AVQ1.HVMKRSKEMA-NH2	2022
JB11583	>50000		Ac-GYASFA1.AVQ1.HVMKRSKEMA-NH2	2322

도면36c

사물 번호	IC50 [nM]	친화도 클래스	치열	치열 번호
JB11599	>50000		Ac-FPLAVQLHVSRSKEMAL.A-NH2	2323
JB11600	>50000		Ac-QLHVSRSKEMAL.A-NH2	2324
JB11601	>50000		Ac-SGYASP.NH2	2325
JB11602	>50000		Ac-LAVQLHVSRSKEMAL.ARL-NH2	2326
JB11644			Ac-VYASPELTVQLHVSRSKEMA-NH2	2327
JB11645			Ac-GYWSFPAVQLHVSRSKEMA-NH2	2328
JB11646			Ac-GYASPELAVQLHVSRSKEMA-NH2	2329
JB11647			Ac-GYWSFYLAVQLHVSRSKEMA-NH2	2330
JB11648			Ac-SYASPELAVQLHVSRSKEIEMA-NH2	2331
JB11649	10282	G	Ac-GYWSFPIAVVHHVSKRSKEMA-NH2	2143
JB11650			Ac-GYASPELAVQLHHKRSKEMA-NH2	2332
JB11651			Ac-GMASPELARDLHWSEVFEKEMA-NH2	2333
JB11653			Ac-EYAQFWLAVQLHVSRSKEMA-NH2	2334
JB11654			Ac-GYASPELIVQLHVSRSKEMA-NH2	2335
JB11655			Ac-GYASPEPIVQHHSKRSKEMA-NH2	2336
JB11656			Ac-GYASFALMVQLHVSRSKEMA-NH2	2337
JB11657			Ac-GYASPIQAVQRHVSRSKEMA-NH2	2338
JB11658			Ac-GYASFALMVQHHSKRSKEMA-NH2	2339
JB11659	14473	G	Ac-GYASFWQAVQLHWKRSKEIEMA-NH2	2144
JB11660	14063	G	Ac-GYASPELIVWLHVSRSKEMA-NH2	2145
JB11661			Ac-GYASPESLAVQLHVSRSKEMA-NH2	2340
JB11662			Ac-GYHSPEKLAVQLHVSRSKEIEMA-NH2	2341
JB11663	12912	G	Ac-GYASFWQAVQLHVSRSKEIEMA-NH2	2146
JB11664			Ac-GYASVYLAVQHHSVRSWEIEMA-NH2	2342
JB11665			Ac-HYHSILPKQVQLHVSRSKEMA-NH2	2343
JB11666			Ac-GYASPESLAVQLHVSRSYEMA-NH2	2344
JB11668			Ac-GYASPELTVQLHVSRSKEMA-NH2	2345
JB11669			Ac-SYSSPEKLAVQLHVSRSKEMA-NH2	2346
JB11670			Ac-GYAWPELNVWLHVHRSIHEMA-NH2	2347
JB11671			Ac-GYASFWLSVQTIVHSKRSKEMA-NH2	2348

36d면도

제품 번호	IC50 [nM]	변환도 클래스	시열	시열 번호
JBT1672			Ac-GYASFP1.MVQLHV1KRSKEMA-NH2	2349
JBT1673			Ac-GYWSFNI.VVQLHVSKRSEMA-NH2	2350
JBT1674			Ac-GYASFIL.AVQLHVWKRSEMA-NH2	2351
JBT1675			Ac-GYASFWI.VVQLHVSKRSEMA-NH2	2352
JBT1676			Ac-GYWSFPL.AVQLHVWKRSEMA-NH2	2353
JBT1677			Ac-GYASPPWYVQLHVSKRSEMA-NH2	2354
JBT1678			Ac-GYTSFQL.AVQLHVSKRSEMA-NH2	2355
JBT1679			Ac-RYASEPL.AVYLIHVTKRSEMA-NH2	2356
JBT1680			Ac-GYWSFPL.AVQLHVSKRLKEMA-NH2	2357
JBT1681			Ac-GHASFQT.AVQQHVSKRSEMA-NH2	2358
JBT1682			Ac-FHVSKRSEMA-NH2	2359
JBT1683			Ac-GYASFWIAVQLHVSKRSEMA-NH2	2360
JBT1684			Ac-GIASFIL.AVQLHVYKRSEMA-NH2	2361
JBT1685			Ac-GYTSFMQAVQHHVSKRSEMA-NH2	2362
JBT1686			Ac-HYHSFYI.AVQLHVWERSYEMA-NH2	2363
JBT1687			Ac-GYASFWHAAVQHHVTKRSEMA-NH2	2364
JBT1688			Ac-GYASFTLTVQLHVSKRSEMA-NH2	2365
JBT1689			Ac-GYASFILTVQLHVSKRSEMA-NH2	2366
JBT1690			Ac-GYASFWI.AVQHHVSKRSEMA-NH2	2367
JBT1691			Ac-GYASFIL.AVQHHVSKRSEMA-NH2	2368
JBT1692			Ac-SYASPPAVMI.HVWKRSEMA-NH2	2369
JBT1693			Ac-GYASFTL.AVQLHVSKRSEMA-NH2	2370
JBT1694			Ac-GYWSFNL.AVQLHVSKRSEMA-NH2	2371
JBT1695			Ac-GYASFPL.AVQLHVSKRSEMA-NH2	2372
JBT1696			Ac-GYASFWI.AVQHHVWKRSEMA-NH2	2373
JBT1697	8481	F	Ac-GYASPPWFVQLHVHRSWEMA-NH2	223
JBT1698			Ac-GYASFTL.AIQHVSKRSEMA-NH2	2374
JBT1858		F	Ac-AYASPPWFVQLHVHRSWEMA-NH2	2024
JBT1859			Ac-GAASPPWFVQLHVHRSWEMA-NH2	2375
JBT1860		F	Ac-GYAAFPWFVQLHVHRSWEMA-NH2	2025

도면36e

사물 번호	IC50 [nM]	친화도 클래스	저열	저열 번호
JB11861			Ac-GYASAPWFVQJLHVHKRSWEMA-NH2	2376
JB11862			Ac-GYASFAMTVQJLHVHKRSWEMA-NH2	2377
JB11863		G	Ac-GYASPPAFVQJLHVHKRSWEMA-NH2	2147
JB11864		F	Ac-GYASPPWAVQJLHVHKRSWEMA-NH2	2026
JB11865			Ac-GYASPPWFVQJLHVHKRSWEMA-NH2	2378
JB11866		F	Ac-GYASPPWFVQJLHVHKRSWEMA-NH2	2027
JB11867		G	Ac-GYASPPWFVQJLHVHKRSWEMA-NH2	2148
JB11868			Ac-GYASPPWFVQJLHVHKRSWEMA-NH2	2379
JB11869		G	Ac-GYASPPWFVQJLHVHKRSWEMA-NH2	2149
JB11870		G	Ac-GYASPPWFVQJLHVAKRSWEMA-NH2	2150
JB11871			Ac-GYASPPWFVQJLHVAKRSWEMA-NH2	2380
JB11872			Ac-GYASPPWFVQJLHVHKASWEMA-NH2	2381
JB11874			Ac-GYASPPWFVQJLHVHKRSWEMA-NH2	2382
JB11875		G	Ac-GYASPPWFVQJLHVHKRSWAMA-NH2	2151
JB11876		G	Ac-GYASPPWFVQJLHVHKRSWEMA-NH2	2152
JB11877		F	Ac-GYASPPWFVQJLHVHKRSWEMA-NH2	2028
JB11878		F	Ac-GCASPWFVQJLHVHKRSWEMA-NH2	2029
JB11879		F	Ac-GYCSPPWFVQJLHVHKRSWEMA-NH2	2030
JB11880		F	Ac-GYACPPWFVQJLHVHKRSWEMA-NH2	2031
JB11881		F	Ac-GYASCPWFVQJLHVHKRSWEMA-NH2	2032
JB11882		G	Ac-GYASPCWFVQJLHVHKRSWEMA-NH2	2153
JB11883		F	Ac-GYASPPCFVQJLHVHKRSWEMA-NH2	2033
JB11884		F	Ac-GYASPPWCQJLHVHKRSWEMA-NH2	2034
JB11885		F	Ac-GYASPPWFQJLHVHKRSWEMA-NH2	2035
JB11886		F	Ac-GYASPPWFVQJLHVHKRSWEMA-NH2	2236
JB11888		G	Ac-GYASPPWFVQJLHVHKRSWEMA-NH2	2154
JB11889		F	Ac-GYASPPWFVQJLHVHKRSWEMA-NH2	2037
JB11890		F	Ac-GYASPPWFVQJLHVCKRSWEMA-NH2	2038
JB11891			Ac-GYASPPWFVQJLHVHICRSWEMA-NH2	2383
JB11892			Ac-GYASPPWFVQJLHVHKCSWEMA-NH2	2384

36f면도

제품 번호	IC50 [nM]	변환도 클래스	제품	제품 번호
JBT1893		F	Ac-GYASFPWFVQJLHVHKKRCWEMA-NH2	2039
JBT1894		F	Ac-GYASFPWFVQJLHVHKKSCEMA-NH2	2040
JBT1895		F	Ac-GYASFPWFVQJLHVHKKRWCMA-NH2	2041
JBT1896		F	Ac-GYASFPWFVQJLHVHKKRWECA-NH2	2042
JBT1897		F	Ac-GYASFPWFVQJLHVHKKRWECA-NH2	2043
JBT1898		F	Ac-DYASFPWFVQJLHVHKKRWECA-NH2	2044
JBT1899		G	Ac-GDASFPWFVQJLHVHKKRWECA-NH2	2155
JBT1900		G	Ac-GYDSEFPWFVQJLHVHKKRWECA-NH2	2156
JBT1901		G	Ac-GYADFPWFVQJLHVHKKRWECA-NH2	2157
JBT1902		G	Ac-GYASDPWFVQJLHVHKKRWECA-NH2	2158
JBT1903			Ac-GYASFPWFVQJLHVHKKRWECA-NH2	2385
JBT1904			Ac-GYASFPWFVQJLHVHKKRWECA-NH2	2386
JBT1905			Ac-GYASFPWFVQJLHVHKKRWECA-NH2	2387
JBT1906			Ac-GYASFPWFVQJLHVHKKRWECA-NH2	2388
JBT1907			Ac-GYASFPWFVQJLHVHKKRWECA-NH2	2389
JBT1908			Ac-GYASFPWFVQJLHVHKKRWECA-NH2	2390
JBT1909			Ac-GYASFPWFVQJLHVHKKRWECA-NH2	2391
JBT1910			Ac-GYASFPWFVQJLHVHKKRWECA-NH2	2392
JBT1911			Ac-GYASFPWFVQJLHVHKKRWECA-NH2	2393
JBT1912			Ac-GYASFPWFVQJLHVHKKRWECA-NH2	2394
JBT1913			Ac-GYASFPWFVQJLHVHKKRWECA-NH2	2395
JBT1914			Ac-GYASFPWFVQJLHVHKKRWECA-NH2	2396
JBT1915			Ac-GYASFPWFVQJLHVHKKRWECA-NH2	2397
JBT1916		G	Ac-GYASFPWFVQJLHVHKKRWECA-NH2	2159
JBT1917			Ac-GYASFPWFVQJLHVHKKRWECA-NH2	2398
JBT1918			Ac-GYASFPWFVQJLHVHKKRWECA-NH2	2399
JBT1920			Ac-GYASFPWFVQJLHVHKKRWECA-NH2	2400
JBT1921		G	Ac-GYASFPWFVQJLHVHKKRWECA-NH2	2160
JBT1922		G	Ac-GYASFPWFVQJLHVHKKRWECA-NH2	2161
JBT1923			Ac-GYASFPWFVQJLHVHKKRWECA-NH2	2401

36g면도

사물 번호	IC50 [nM]	원화도 클래스	서열	서열 번호
JBT1924			Ac-GYASPEWFEVQLHVHKRSWEMA-NH2	2402
JBT1925			Ac-GYASPEIYVQLHVHKRSWEMA-NH2	2403
JBT1926			Ac-GYASPEWVQLHVHKRSWEMA-NH2	2404
JBT1927			Ac-GYASPEWFEQLHVHKRSWEMA-NH2	2405
JBT1928			Ac-GYASPEWVELHVHKRSWEMA-NH2	2406
JBT1929			Ac-GYASPEWVQLHVHKRSWEMA-NH2	2407
JBT1930			Ac-GYASPEWTVQLHVHKRSWEMA-NH2	2408
JBT1931			Ac-GYASPEWVQLHEHKRSWEMA-NH2	2409
JBT1932			Ac-GYASPEWVQLHVEKRSWEMA-NH2	2410
JBT1933			Ac-GYASPEWVQLHVHERSWEMA-NH2	2411
JBT1934			Ac-GYASPEWVQLHVHKSWEEMA-NH2	2412
JBT1935			Ac-GYASPEWTVQLHVHKREWEMA-NH2	2413
JBT1936			Ac-GYASPEWVQLHVHKRSEEMA-NH2	2414
JBT1937			Ac-GYASPEWVQLHVHKRSWEA-NH2	2415
JBT1938			Ac-GYASPEWFEVQLHVHKRSWEME-NH2	2416
JBT1939	G		Ac-FYASPEWFEVQLHVHKRSWEMA-NH2	2162
JBT1940	G		Ac-GFASPEWTVQLHVHKRSWEMA-NH2	2163
JBT1941	G		Ac-GYSPPEWFEVQLHVHKRSWEMA-NH2	2164
JBT1942	G		Ac-GYAFPEWFEVQLHVHKRSWEMA-NH2	2165
JBT1943			Ac-GYASPEWFEVQLHVHKRSWEMA-NH2	2167
JBT1944	G		Ac-GYASPEFEVQLHVHKSWEEMA-NH2	2166
JBT1945	G		Ac-GYASPEWTFQLHVHKRSWEMA-NH2	2167
JBT1946	G		Ac-GYASPEWFEFLHVHKRSWEMA-NH2	2168
JBT1948			Ac-GYASPEWFEVQLHVHKRSWEMA-NH2	2418
JBT1949	G		Ac-GYASPEWFEVQLHFHKRSWEMA-NH2	2169
JBT1950	F		Ac-GYASPEWFEVQLHVEKRSWEMA-NH2	2045
JBT1951			Ac-GYASPEWFEVQLHVHRSWEMA-NH2	2419
JBT1952	G		Ac-GYASPEWFEVQLHVHKSWEEMA-NH2	2170
JBT1953	G		Ac-GYASPEWFEVQLHVHKRFWEMA-NH2	2171
JBT1954	G		Ac-GYASPEWFEVQLHVHKRSFEMA-NH2	2172

도면36h

시료 번호	IC50 [mM]	친화도 클래스	서열	서열 번호
JB11955	G		Ac-GYASFPWFVQLHVHKRSWEMA-NH2	2173
JB11956	G		Ac-GYASFPWFVQLHVHKRSWEFA-NH2	2174
JB11959	F		Ac-GYGSPWFVQLHVHKRSWEMA-NH2	2046
JB11960	F		Ac-GYAGTPWFVQLHVHKRSWEMA-NH2	2047
JB11961	G		Ac-GYASGPWFVQLHVHKRSWEMA-NH2	2175
JB11962			Ac-GYASFGWFVQLHVHKRSWEMA-NH2	2420
JB11963	G		Ac-GYASFPGFVQLHVHKRSWEMA-NH2	2176
JB11964	G		Ac-GYASFPWGVQLHVHKRSWEMA-NH2	2177
JB11965	G		Ac-GYASFPWFGQLHVHKRSWEMA-NH2	2178
JB11966	G		Ac-GYASFPWFVQLHVHKRSWEMA-NH2	2179
JB11967	G		Ac-GYASFPWFVQGHVHKRSWEMA-NH2	2180
JB11968			Ac-GYASFPWFVQLHVHKRSWEMA-NH2	2421
JB11969	G		Ac-GYASFPWFVQLHGHKRSWEMA-NH2	2181
JB11970	G		Ac-GYASFPWFVQLHVGRKRSWEMA-NH2	2182
JB11971			Ac-GYASFPWFVQLHVGRSWEMA-NH2	2422
JB11972			Ac-GYASFPWFVQLHVHKGWEMA-NH2	2423
JB11973	F		Ac-GYASFPWFVQLHVHKGWEMA-NH2	2048
JB11974			Ac-GYASFPWFVQLHVHKRSWEMA-NH2	2424
JB11975	G		Ac-GYASFPWFVQLHVHKRSWEMA-NH2	2183
JB11976	G		Ac-GYASFPWFVQLHVHKRSWEMA-NH2	2184
JB11979	G		Ac-GHASFPWFVQLHVHKRSWEMA-NH2	2185
JB11980	F		Ac-GYHSFPWFVQLHVHKRSWEMA-NH2	2049
JB11981	F		Ac-GYAHFPWFVQLHVHKRSWEMA-NH2	2050
JB11982	F		Ac-GYASHPWFVQLHVHKRSWEMA-NH2	2051
JB11984	G		Ac-GYASFPHFVQLHVHKRSWEMA-NH2	2186
JB11985	F		Ac-GYASFPWHVQLHVHKRSWEMA-NH2	2052
JB11986	G		Ac-GYASFPWTHQLHVHKRSWEMA-NH2	2187
JB11987	G		Ac-GYASFPWFVHLHVHKRSWEMA-NH2	2188
JB11989	G		Ac-GYASFPWFVQLHHHKRSWEMA-NH2	2189
JB11990			Ac-GYASFPWFVQLHYHRSWEMA-NH2	2425

36면도

제품 번호	IC50 [mM]	전환도 클래스	서열	서열 번호
JBT1991			Ac-GYASFPWFVQLHVHKKHSWEMA-NH2	2426
JBT1993			Ac-GYASFPWFVQLHVHKKRSHEMA-NH2	2427
JBT1994		F	Ac-GYASFPWFVQLHVHKKRSWEMA-NH2	2053
JBT1995		G	Ac-GYASFPWFVQLHVHKKRSWEHA-NH2	2190
JBT1996		F	Ac-GYASFPWFVQLHVHKKRSWEMH-NH2	2054
JBT1997		G	Ac-IYASFPWFVQLHVHKKRSWEMA-NH2	2191
JBT1999		F	Ac-GYISFPWFVQLHVHKKRSWEMA-NH2	2055
JBT2000		F	Ac-GYAIFPWFVQLHVHKKRSWEMA-NH2	2056
JBT2001		G	Ac-GYASFPWFVQLHVHKKRSWEMA-NH2	2192
JBT2002			Ac-GYASFIWFVQLHVHKKRSWEMA-NH2	2428
JBT2003		G	Ac-GYASFPFI VQLHVHKKRSWEMA-NH2	2193
JBT2005		G	Ac-GYASFPWFIQLHVHKKRSWEMA-NH2	2194
JBT2006		G	Ac-GYASFPWFVILHVHKKRSWEMA-NH2	2195
JBT2007		F	Ac-GYASFPWFVQLHVHKKRSWEMA-NH2	2057
JBT2008		G	Ac-GYASFPWFVQLHVHKKRSWEMA-NH2	2196
JBT2010		F	Ac-GYASFPWFVQLHVHKKRSWEMA-NH2	2058
JBT2011			Ac-GYASFPWFVQLHVHRSWEMA-NH2	2429
JBT2012			Ac-GYASFPWFVQLHVHKSISWEMA-NH2	2430
JBT2013		F	Ac-GYASFPWFVQLHVHKKRIWEMA-NH2	2059
JBT2014		F	Ac-GYASFPWFVQLHVHKKRSHEMA-NH2	2060
JBT2017		F	Ac-GYASFPWFVQLHVHKKRSWEMI-NH2	2061
JBT2018		F	Ac-KYASFPWFVQLHVHKKRSWEMA-NH2	2062
JBT2019		F	Ac-GKASFPWFVQLHVHKKRSWEMA-NH2	2063
JBT2020		F	Ac-GYKSPWFVQLHVHKKRSWEMA-NH2	2064
JBT2021		F	Ac-GYAKFPWFVQLHVHKKRSWEMA-NH2	2065
JBT2022		F	Ac-GYASKPWFVQLHVHKKRSWEMA-NH2	2066
JBT2023		G	Ac-GYASIKWFVQLHVHKKRSWEMA-NH2	2197
JBT2024		G	Ac-GYASPKFI VQLHVHKKRSWEMA-NH2	2198
JBT2025		F	Ac-GYASFPWKVQLHVHKKRSWEMA-NH2	2067
JBT2027		F	Ac-GYASFPWFVKLHVHKKRSWEMA-NH2	2068

36j면도

시료 번호	IC50 [nM]	전환도 클래스	시열	시열 번호
JBT2028		F	Ac-GYASFPWFVQKHVKRSWEMA-NH2	2069
JBT2029		G	Ac-GYASFPWFVQKVKHRSWEMA-NH2	2199
JBT2030		F	Ac-GYASFPWFVQJHKHRSWEMA-NH2	2070
JBT2032			Ac-GYASFPWFVQJHVHKKSWEMA-NH2	2431
JBT2033		F	Ac-GYASFPWFVQJHVHKKRWEMA-NH2	2071
JBT2034		G	Ac-GYASFPWFVQJHVHKKSEMA-NH2	2200
JBT2035		F	Ac-GYASFPWFVQJHVHKKRWEMA-NH2	2072
JBT2036		G	Ac-GYASFPWFVQJHVHKKRSWEKA-NH2	2201
JBT2037		F	Ac-GYASFPWFVQJHVHKKRWEMK-NH2	2073
JBT2038		F	Ac-LYASFPWFVQJHVHKKRWEMA-NH2	2074
JBT2040		F	Ac-GYLSPWFVQJHVHKKRWEMA-NH2	2075
JBT2041		F	Ac-GYALFPWFVQJHVHKKRWEMA-NH2	2076
JBT2042		G	Ac-GYASLPWFVQJHVHKKRWEMA-NH2	2202
JBT2043			Ac-GYASLPWFVQJHVHKKRWEMA-NH2	2432
JBT2044		G	Ac-GYASPLFVQJHVHKKRWEMA-NH2	2203
JBT2045		G	Ac-GYASPWL VQJHVHKKRWEMA-NH2	2204
JBT2046		G	Ac-GYASPWLQJHVHKKRWEMA-NH2	2205
JBT2047		F	Ac-GYASPWFVLHVHKKRWEMA-NH2	2077
JBT2048		G	Ac-GYASPWFVQLVHKKRWEMA-NH2	2206
JBT2049		G	Ac-GYASPWFVQJLHKKRWEMA-NH2	2207
JBT2050		G	Ac-GYASPWFVQJLHKKRWEMA-NH2	2208
JBT2051			Ac-GYASPWFVQJLHVHLRSWEMA-NH2	2433
JBT2052			Ac-GYASPWFVQJLHVHKL SWEMA-NH2	2434
JBT2053		F	Ac-GYASPWFVQJLHVHKLWEMA-NH2	2078
JBT2054		G	Ac-GYASPWFVQJLHVHKKRSL EMA-NH2	2209
JBT2055		G	Ac-GYASPWFVQJLHVHKKRWLMA-NH2	2210
JBT2056		G	Ac-GYASPWFVQJLHVHKKRWEI A-NH2	2211
JBT2057		F	Ac-GYASPWFVQJLHVHKKRSEML-NH2	2079
JBT2058		F	Ac-MYASFPWFVQJLHVHKKRWEMA-NH2	2080
JBT2059		G	Ac-GMASFPWFVQJLHVHKKRWEMA-NH2	2212

36k면도

시험 번호	IC50 [mM]	친화도 클래스	서열	시험 번호
JB12060		F	Ac-GYMSFPWFVQLHVHKRSWEMA-NH2	2081
JB12061		F	Ac-GYAMIPWFVQLHVHKRSWEMA-NH2	2082
JB12062		G	Ac-GYASMPWFVQLHVHKRSWEMA-NH2	2213
JB12063			Ac-GYASPMWFVQLHVHKRSWEMA-NH2	2435
JB12064			Ac-GYASPPMFVQLHVHKRSWEMA-NH2	2436
JB12065		G	Ac-GYASFPWFVQLHVHKRSWEMA-NH2	2214
JB12066		G	Ac-GYASFPWFVQLHVHKRSWEMA-NH2	2215
JB12067		G	Ac-GYASFPWFVQLHVHKRSWEMA-NH2	2216
JB12068		F	Ac-GYASFPWFVQMHVHKRSWEMA-NH2	2083
JB12069			Ac-GYASFPWFVQLMVHKRSWEMA-NH2	2437
JB12070		G	Ac-GYASFPWFVQLHMVHKRSWEMA-NH2	2217
JB12071		G	Ac-GYASFPWFVQLHVHKRSWEMA-NH2	2218
JB12072			Ac-GYASFPWFVQLHVHKRSWEMA-NH2	2438
JB12073			Ac-GYASFPWFVQLHVHKRSWEMA-NH2	2439
JB12075		G	Ac-GYASFPWFVQLHVHKRSWEMA-NH2	2219
JB12076			Ac-GYASFPWFVQLHVHKRSWEMA-NH2	2440
JB12077		F	Ac-GYASFPWFVQLHVHKRSWEMA-NH2	2084
JB12078		F	Ac-NYASFPWFVQLHVHKRSWEMA-NH2	2085
JB12079		G	Ac-GNASFPWFVQLHVHKRSWEMA-NH2	2220
JB12080		G	Ac-GYNSFPWFVQLHVHKRSWEMA-NH2	2221
JB12081		F	Ac-GYANFPWFVQLHVHKRSWEMA-NH2	2086
JB12082		G	Ac-GYASNPWFVQLHVHKRSWEMA-NH2	2222
JB12083			Ac-GYASFPWFVQLHVHKRSWEMA-NH2	2441
JB12084		G	Ac-GYASFPWFVQLHVHKRSWEMA-NH2	2223
JB12085		G	Ac-GYASFPWFVQLHVHKRSWEMA-NH2	2224
JB12086			Ac-GYASFPWFVQLHVHKRSWEMA-NH2	2442
JB12087		G	Ac-GYASFPWFVQLHVHKRSWEMA-NH2	2225
JB12088		G	Ac-GYASFPWFVQLHVHKRSWEMA-NH2	2226
JB12089			Ac-GYASFPWFVQLHVHKRSWEMA-NH2	2443
JB12090			Ac-GYASFPWFVQLHNHKRSWEMA-NH2	2444

361면도

시료 번호	IC50 [nM]	전환도 클래스	서열	시열 번호
JB12091		G	Ac-GYASPPWFVQLHVHNKRSWEMA-NH2	2227
JB12092			Ac-GYASPPWFVQLHVHNKRSWEMA-NH2	2445
JB12093			Ac-GYASPPWFVQLHVHKNRSWEMA-NH2	2446
JB12094		F	Ac-GYASPPWFVQLHVHKNRWEMA-NH2	2087
JB12095			Ac-GYASPPWFVQLHVHKNSEMA-NH2	2447
JB12096		G	Ac-GYASPPWFVQLHVHKNRNMA-NH2	2228
JB12097		G	Ac-GYASPPWFVQLHVHKNRWEMA-NH2	2229
JB12098		F	Ac-GYASPPWFVQLHVHKNRSWEMA-NH2	2088
JB12099		F	Ac-PYASPPWFVQLHVHKNRSWEMA-NH2	2089
JB12100		G	Ac-GPASPWFVQLHVHKNRSWEMA-NH2	2230
JB12101		G	Ac-GYSPWFVQLHVHKNRSWEMA-NH2	2231
JB12103		G	Ac-GYASPPWFVQLHVHKNRSWEMA-NH2	2232
JB12104			Ac-GYASPPWFVQLHVHKNRSWEMA-NH2	2448
JB12105		G	Ac-GYASPPWFVQLHVHKNRSWEMA-NH2	2233
JB12106			Ac-GYASPPWFVQLHVHKNRSWEMA-NH2	2449
JB12107		G	Ac-GYASPPWFVQLHVHKNRSWEMA-NH2	2234
JB12108			Ac-GYASPPWFVQLHVHKNRSWEMA-NH2	2450
JB12109			Ac-GYASPPWFVQLHVHKNRSWEMA-NH2	2451
JB12110			Ac-GYASPPWFVQLHVHKNRSWEMA-NH2	2452
JB12111			Ac-GYASPPWFVQLHVHKNRSWEMA-NH2	2453
JB12112			Ac-GYASPPWFVQLHVHKNRSWEMA-NH2	2454
JB12113			Ac-GYASPPWFVQLHVHKNRSWEMA-NH2	2455
JB12114			Ac-GYASPPWFVQLHVHKNRSWEMA-NH2	2456
JB12115			Ac-GYASPPWFVQLHVHKNRSWEMA-NH2	2457
JB12116		G	Ac-GYASPPWFVQLHVHKNRSWEMA-NH2	2235
JB12118		G	Ac-GYASPPWFVQLHVHKNRSWEMA-NH2	2236
JB12119		G	Ac-QYASPPWFVQLHVHKNRSWEMA-NH2	2237
JB12120			Ac-GQASPPWFVQLHVHKNRSWEMA-NH2	2458
JB12121		G	Ac-GYQSPWFVQLHVHKNRSWEMA-NH2	2238
JB12122		G	Ac-GYAQSPWFVQLHVHKNRSWEMA-NH2	2239

36m면도

시험 번호	ICS0 [mM]	친화도 클래스	서열	서열 번호
JBT1213		G	Ac-GYASQPWFEVQLHVHKKRSWEMA-NH2	2240
JBT1214			Ac-GYASFQWFEVQLHVHKKRSWEMA-NH2	2459
JBT1215			Ac-GYASFPQYVQLHVHKKRSWEMA-NH2	2460
JBT1216		G	Ac-GYASFPWQVQLHVHKKRSWEMA-NH2	2241
JBT1217			Ac-GYASFPWFQQLHVHKKRSWEMA-NH2	2461
JBT1218		G	Ac-GYASFPWFVQQLHVHKKRSWEMA-NH2	2242
JBT1219			Ac-GYASFPWFVQLQVHKKRSWEMA-NH2	2462
JBT1230			Ac-GYASFPWFVQLHQHKKRSWEMA-NH2	2463
JBT1231		G	Ac-GYASFPWFVQLHVQKRSWEMA-NH2	2243
JBT1232			Ac-GYASFPWFVQLHVHQRSWEMA-NH2	2464
JBT1233			Ac-GYASFPWFVQLHVHKQSWEMA-NH2	2465
JBT1234		F	Ac-GYASFPWFVQLHVHKRQWEMA-NH2	2090
JBT1235		G	Ac-GYASFPWFVQLHVHKRSQEMA-NH2	2244
JBT1236		G	Ac-GYASFPWFVQLHVHKRSQMA-NH2	2245
JBT1237		G	Ac-GYASFPWFVQLHVHKRSWEQA-NH2	2246
JBT1238		F	Ac-GYASFPWFVQLHVHKKRSWEMQ-NH2	2091
JBT1239		F	Ac-RYASFPWFVQLHVHKKRSWEMA-NH2	2092
JBT1240		F	Ac-GRASFPWFVQLHVHKKRSWEMA-NH2	2093
JBT1241		F	Ac-GYASFPWFVQLHVHKKRSWEMA-NH2	2094
JBT1242		F	Ac-GYARFPWFVQLHVHKKRSWEMA-NH2	2095
JBT1243		F	Ac-GYASRPWFVQLHVHKKRSWEMA-NH2	2096
JBT1244		G	Ac-GYASRPWFVQLHVHKKRSWEMA-NH2	2247
JBT1245		F	Ac-GYASPRFVQLHVHKKRSWEMA-NH2	2097
JBT1246		F	Ac-GYASFPWRVQLHVHKKRSWEMA-NH2	2098
JBT1247		F	Ac-GYASFPWFROQLHVHKKRSWEMA-NH2	2099
JBT1248		F	Ac-GYASFPWFVRLHVHKKRSWEMA-NH2	2100
JBT1249		F	Ac-GYASFPWFVQRHVHKKRSWEMA-NH2	2101
JBT1250		G	Ac-GYASFPWFVQLRVHKKRSWEMA-NH2	2248
JBT1251		F	Ac-GYASFPWFVQLHRHKKRSWEMA-NH2	2102
JBT1252		F	Ac-GYASFPWFVQLHVKKRSWEMA-NH2	2103

면36n

사물 번호	IC50 [nM]	친화도 클래스	저열	저열 번호
JB12153		F	Ac-GYASFPWFVQLHVHRRSWEMA-NH2	2104
JB12154		F	Ac-GYASFPWFVQLHVHKKRWEMA-NH2	2105
JB12155		F	Ac-GYASFPWFVQLHVHKKRREMA-NH2	2106
JB12156		F	Ac-GYASFPWFVQLHVHKKRSWEMA-NH2	2107
JB12157		G	Ac-GYASFPWFVQLHVHKKSWERA-NH2	2249
JB12158		F	Ac-GYASFPWFVQLHVHKKRWEMR-NH2	2108
JB12159		F	Ac-SYASFPWFVQLHVHKKRWEMA-NH2	2109
JB12160		G	Ac-GSASFPWFVQLHVHKKRWEMA-NH2	2250
JB12161		F	Ac-GYSSFPWFVQLHVHKKRWEMA-NH2	2110
JB12162		G	Ac-GYASSFPWFVQLHVHKKRWEMA-NH2	2251
JB12163			Ac-GYASFSWFVQLHVHKKRWEMA-NH2	2466
JB12164		G	Ac-GYASFPSTFVQLHVHKKRWEMA-NH2	2252
JB12165		G	Ac-GYASFPWVSQQLHVHKKRWEMA-NH2	2253
JB12166		G	Ac-GYASFPWFSQQLHVHKKRWEMA-NH2	2254
JB12167		F	Ac-GYASFPWFVSLHVHKKRWEMA-NH2	2111
JB12168		G	Ac-GYASFPWFVQSHVHKKRWEMA-NH2	2255
JB12169			Ac-GYASFPWFVQLSVHKKRWEMA-NH2	2467
JB12170		G	Ac-GYASFPWFVQQLHSHKKRWEMA-NH2	2256
JB12171		G	Ac-GYASFPWFVQLHVSKRSWEMA-NH2	2257
JB12172			Ac-GYASFPWFVQQLHVSRSWEMA-NH2	2468
JB12173			Ac-GYASFPWFVQLHVHKSSEMA-NH2	2469
JB12174			Ac-GYASFPWFVQLHVHKKRSSEMA-NH2	2470
JB12175			Ac-GYASFPWFVQQLHVHKKRSWEMA-NH2	2471
JB12176			Ac-GYASFPWFVQQLHVHKKRSWESA-NH2	2472
JB12177			Ac-GYASFPWFVQQLHVHKKRSWEMS-NH2	2473
JB12178		F	Ac-1YASFPWFVQQLHVHKKRWEMA-NH2	2112
JB12179		G	Ac-GTASFPWFVQQLHVHKKRWEMA-NH2	2258
JB12180		F	Ac-GYTSPWFVQQLHVHKKRWEMA-NH2	2113
JB12181		F	Ac-GYATFPWFVQQLHVHKKRWEMA-NH2	2114
JB12182		G	Ac-GYASTPWFVQQLHVHKKRWEMA-NH2	2259

360면도

사물 번호	IC50 [mM]	친화도 클래스	서열	서열 번호
JB12183			Ac-GYASFTWEVQLHVHKRSWEMA-NH2	2474
JB12184		G	Ac-GYASFTTVQLHVHKRSWEMA-NH2	2260
JB12185		G	Ac-GYASFPWTVOLHVHKRSWEMA-NH2	2261
JB12186		G	Ac-GYASFPWFTQLHVHKRSWEMA-NH2	2262
JB12187		G	Ac-GYASFPWEVTLLHVHKRSWEMA-NH2	2263
JB12188		G	Ac-GYASFPWEVQLTHVHKRSWEMA-NH2	2264
JB12189			Ac-GYASFPWEVQLTVHKRSWEMA-NH2	2475
JB12190			Ac-GYASFPWEVQLTHHKRSWEMA-NH2	2476
JB12191		G	Ac-GYASFPWEVQLHVTKRSEMA-NH2	2265
JB12192			Ac-GYASFPWEVQLHVHTRSEMA-NH2	2477
JB12193			Ac-GYASFPWEVQLHVHRTSEMA-NH2	2478
JB12194		F	Ac-GYASFPWEVQLHVHRTWEMA-NH2	2115
JB12195			Ac-GYASFPWEVQLHVHKRSTEMA-NH2	2479
JB12196			Ac-GYASFPWEVQLHVHKRSWTMA-NH2	2480
JB12197			Ac-GYASFPWEVQLHVHKRSWETA-NH2	2481
JB12198		G	Ac-GYASFPWEVQLHVHKRSWEMT-NH2	2266
JB12199			Ac-VYASFPWEVQLHVHKRSWEMA-NH2	2482
JB12200			Ac-GVASFPWEVQLHVHKRSWEMA-NH2	2483
JB12201			Ac-GYVSPWEVQLHVHKRSWEMA-NH2	2484
JB12202		G	Ac-GYAVFPWEVQLHVHKRSWEMA-NH2	2267
JB12203			Ac-GYASVPWEVQLHVHKRSWEMA-NH2	2268
JB12204		G	Ac-GYASVWFVQLHVHKRSWEMA-NH2	2485
JB12205			Ac-GYASFPVFVQLHVHKRSWEMA-NH2	2486
JB12206		F	Ac-GYASFPVVQLHVHKRSWEMA-NH2	2116
JB12207		G	Ac-GYASFPWFVVLHVHKRSWEMA-NH2	2269
JB12208		F	Ac-GYASFPWEVQLHVHKRSWEMA-NH2	2117
JB12209			Ac-GYASFPWFVQLVHVHKRSWEMA-NH2	2487
JB12210		G	Ac-GYASFPWEVQLHVVKRSWEMA-NH2	2270
JB12211			Ac-GYASFPWEVQLHVHVRSEMA-NH2	2488
JB12212			Ac-GYASFPWFVQLHVHKSWEEMA-NH2	2489

36p면도

시료 번호	IC50 [nM]	친화도 클래스	서열	시료 번호
JB12213		F	Ac-GYASFPWFVQLHVHKRVWEMA-NH2	2118
JB12214		G	Ac-GYASFPWFVQLHVHKRSVEMA-NH2	2271
JB12215		G	Ac-GYASFPWFVQLHVHKRSWVMA-NH2	2272
JB12216		G	Ac-GYASFPWFVQLHVHKRSWEA-NH2	2273
JB12217		F	Ac-GYASFPWFVQLHVHKRSWEMV-NH2	2119
JB12218		G	Ac-WYASFPWFVQLHVHKRSWEMA-NH2	2274
JB12219		F	Ac-GWASFPWFVQLHVHKRSWEMA-NH2	2120
JB12220		F	Ac-GYWSFPWFVQLHVHKRSWEMA-NH2	2121
JB12221		G	Ac-GYAWFPWFVQLHVHKRSWEMA-NH2	2275
JB12222		F	Ac-GYASWPWFVQLHVHKRSWEMA-NH2	2122
JB12223			Ac-GYASFPWFVQLHVHKRSWEMA-NH2	2490
JB12224		F	Ac-GYASFPWWVQLHVHKRSWEMA-NH2	2123
JB12225		G	Ac-GYASFPWFVQLHVHKRSWEMA-NH2	2276
JB12226		G	Ac-GYASFPWFVWLHVHKRSWEMA-NH2	2277
JB12227		F	Ac-GYASFPWFVQLWVHKRSWEMA-NH2	2124
JB12228			Ac-GYASFPWFVQLWVHKRSWEMA-NH2	2491
JB12229		G	Ac-GYASFPWFVQLHVHKRSWEMA-NH2	2278
JB12230		G	Ac-GYASFPWFVQLHVWKRSEMA-NH2	2279
JB12231			Ac-GYASFPWFVQLHVHWRSEMA-NH2	2492
JB12232			Ac-GYASFPWFVQLHVHKRSWEMA-NH2	2493
JB12233		G	Ac-GYASFPWFVQLHVHKRWEMA-NH2	2280
JB12234		G	Ac-GYASFPWFVQLHVHKRSWMA-NH2	2281
JB12235		G	Ac-GYASFPWFVQLHVHKRSWEA-NH2	2282
JB12236		F	Ac-GYASFPWFVQLHVHKRSWEMW-NH2	2125
JB12238		G	Ac-GYYSFPWFVQLHVHKRSWEMA-NH2	2283
JB12239		G	Ac-GYAYFPWFVQLHVHKRSWEMA-NH2	2284
JB12240		G	Ac-GYASYFPWFVQLHVHKRSWEMA-NH2	2285
JB12241			Ac-GYASYWTFVQLHVHKRSWEMA-NH2	2494
JB12242		G	Ac-GYASFPYFVQLHVHKRSWEMA-NH2	2286
JB12243		F	Ac-GYASFPWYVQLHVHKRSWEMA-NH2	2126

도면36q

시료 번호	IC50 [nM]	친화도 클래스	서열	서열 번호
JB12244		G	Ac-GYASFPWFVYQLHVHKRSWEMA-NH2	2287
JB12245		G	Ac-GYASFPWFVYTLHVHKRSWEMA-NH2	2288
JB12246		G	Ac-GYASFPWFVQYHVHKRSWEMA-NH2	2289
JB12247			Ac-GYASFPWFVQLYVHKRSWEMA-NH2	2495
JB12248		G	Ac-GYASFPWFVQLHVHKRSWEMA-NH2	2290
JB12249		G	Ac-GYASFPWFVQLHVYKRSWEMA-NH2	2291
JB12250			Ac-GYASFPWFVQLHVHYRSWEMA-NH2	2496
JB12251			Ac-GYASFPWFVQLHVHKYSWEMA-NH2	2497
JB12252		G	Ac-GYASFPWFVQLHVHKRYWEMA-NH2	2292
JB12253		G	Ac-GYASFPWFVQLHVHKRSYEMA-NH2	2293
JB12254		G	Ac-GYASFPWFVQLHVHKRSWYMA-NH2	2294
JB12255		G	Ac-GYASFPWFVQLHVHKRSWEYA-NH2	2295
JB12256		G	Ac-GYASFPWFVQLHVHKRSWEMY-NH2	2296

도면37

시퀀스 번호	EC50 [nM]	시퀀스	시퀀스 번호
JB10126	55.6868	비오타닐-Tids-SGYASFPFLAVQQLHVSRSKSKEMALARLYYKITS-NH2	2498

도면38a

사물 번호	IC50 평균 (nM)	친화도 클래스	서열	서열 번호
JB10049	ND		Ac-SGNTFVDERLLYHLTGNNMGMYAAQLKRTSK-NH2	3025
JB10050	2745	E	Ac-SGRGCTKVIVFTFRIINKLIGYERRYNCTIS-NH2	3047
JB10101	251	D	Ac-KKSGVWQTHPRYFWTMWPDIKGEVIVLFGTSKK-NH2	3036
JB10129	ND		Ac-SGRGICTKVIVFTFRIINKLIGYERRYNCTIS-NH2	3026
JB10176*	39444	G	Ac-KKVGSVTRWSMYPPIETWLTLEQPVGWDHKK-NH2	3056
JB10177*	>50000		Ac-KKLITGDWTTYWSSKVWGPVIERQMPVSTPHKK-NH2	3065
JB10178	72	B	Ac-KKSGVWQTHPRYFWTMWPDIKGEVIVLFGTSKK-NH2	3028
JB10179	>50000		Ac-KKSGVWQTHPRYFWTMWPDIKGEVIVLFGTSKK-NH2	3066
JB10180	>50000		Ac-KKSGVWQTHPRYFWTMWPDIKGEVIVLFGTSKK-NH2	3067
JB10181	>50000		Ac-KKSGVWQTHPRYFWTMWPDIKGEVIVLFGTSKK-NH2	3068
JB10182	351	D	Ac-KKGVWQTHPRYFWTMWPDIKGEVIVLFGTSKK-NH2	3037
JB10183	>50000		Ac-KKQTHPRYFWTMWPDIKGEVIVLFGTSKK-NH2	3069
JB10184	>50000		Ac-KKPRYFWTMWPDIKGEVIVLFGTSKK-NH2	3070
JB10185	45487	G	Ac-KKLWTWMPDIKGEVIVLFGTSKK-NH2	3057
JB10186	>50000		Ac-KKSGVWQTHPRYFWTMWPDIKGKK-NH2	3071
JB10187	>50000		Ac-KKQTHPRYFWTMWPDIKGEVIVLFGTSKK-NH2	3072
JB10188	25332	G	Ac-KKHPRYFWTMWPDIKGEVIVLFGTSKK-NH2	3058
JB10189	35115	G	Ac-KKYFWTMWPDIKGEVIVLFGTSKK-NH2	3059
JB10190	100	C	Ac-KKSGNTFVDERLLYHLTGNNMGMYAAQLKRTSK-NH2	3031
JB10191*	8935	F	Ac-MLGVLIRGISALITGDTARFEYLNKQITEN-NH2	3054
JB10193	>50000		Ac-KKSGNTFVDERLLYHLTGNNMGMYAAQLKFKK-NH2	3073
JB10194	>50000		Ac-KKSGNTFVDERLLYHLTGNNMGMYAAQKK-NH2	3074
JB10195	>50000		Ac-KKSGNTFVDERLLYHLTGNNMGMYKK-NH2	3075
JB10196	3457	E	Ac-KKSGNTFVDERLLYHLTGNNMKK-NH2	3048
JB10197	>50000		Ac-KKTFVDERLLYHLTGNNMGMYAAQLKRTSKK-NH2	3076
JB10198	>50000		Ac-KKDERLLYHLTGNNMGMYAAQLKRTSKK-NH2	3077
JB10199	>50000		Ac-KKLTYHLTGNNMGMYAAQLKRTSKK-NH2	3078
JB10200	>50000		Ac-KKLTGNNMGMYAAQLKRTSKK-NH2	3079
JB10201	>50000		Ac-KKLTYHLTGNNMGMYAAQLKRTSKK-NH2	3080
JB10202	>50000		Ac-KKLTYHLTGNNMGMYAAQLKRTSKK-NH2	3081
JB10203	>50000		Ac-KKTYHLTGNNMGMYAAQLKRTSKK-NH2	3082

도면38b

시열 번호	IC50 평균 (nM)	진화도 클래스	시열	시열 번호
JB10204	25693	G	Ac-KKSGNTFVDERLLYELTIGNMGKK-NH2	3060
JB10205	72	B	Ac-KKSGRGCTKVIYFTRHNKLIYERRYNCTSKK-NH2	3029
JB10206*	3594	E	Ac-TNYTGSSEKQIRVTRRYLGVRLNCHIKGS-NH2	3049
JB10207*	4316	E	Ac-TRNVVRRYECFGTGCIKYFHSRTGLNK-NH2	3050
JB10208	ND		Ac-KKSGRGCTKVIYFTRHNKLIYERRYNKK-NH2	3027
JB10209	4756	E	Ac-KKSGRGCTKVIYFTRHNKLIYERKK-NH2	3051
JB10210	20471	G	Ac-KKSGRGCTKVIYFTRHNKLIYERKK-NH2	3061
JB10211	211	C	Ac-KKSGCTKVIYFTRHNKLIYERRYNCTSKK-NH2	3032
JB10212	117	C	Ac-KKGVIVFTRHNKLIYERRYNCTSKK-NH2	3033
JB10213	>50000		Ac-KKVFTRHNKLIYERRYNCTSKK-NH2	3083
JB10214	2277	E	Ac-KKGRGCTKVIYFTRHNKLIYERKK-NH2	3052
JB10215	6146	F	Ac-KKGRGCTKVIYFTRHNKLIYERKK-NH2	3055
JB10216	2123	E	Ac-KKGRGCTKVIYFTRHNKLIYERKK-NH2	3053
JB10217	47024	G	Ac-KKGRGCTKVIYFTRHNKLIYERRYKK-NH2	3062
JB10218	32865	G	Ac-KKGVIVFTRHNKLIYERRYNKK-NH2	3063
JB10219	78	B	Ac-KKGVIVFTRHNKLIYERRYNCK-NH2	3030
JB10220	31914	G	Ac-KKGVIVFTRHNKLIYERRYNCTKK-NH2	3064
JB10220	629	D	Ac-IFVDERLLYELTIGNMGMYAAQLKF-NH2	3038
JB10234	271	D	Ac-FVDERLLYELTIGNMGMYAAQLKF-NH2	3039
JB10234	214	C	Ac-VDERLLYELTIGNMGMYAAQLKF-NH2	3034
JB10236	434	D	Ac-IFVDERLLYELTIGNMGMYAAQLKF-NH2	3040
JB10238	>5000		Ac-IFVDERLLYELTIGNMGMYAAQ-NH2	3084
JB10239	552	D	Ac-GCTKVIYFTRHNKLIYERRYNCTSKK-NH2	3041
JB10239	527	D	Ac-GCTKVIYFTRHNKLIYERRYNCTSKK-NH2	3042
JB10239	948	D	Ac-TRVIVFTRHNKLIYERRYNCTSKK-NH2	3043
JB10239	948	D	Ac-TRVIVFTRHNKLIYERRYNCTSKK-NH2	3043
JB10239	848	D	Ac-GCTKVIYFTRHNKLIYERRYNCTSKK-NH2	3044
JB10239	668	D	Ac-GCTKVIYFTRHNKLIYERRYNCTSKK-NH2	3045
JB10239	125	C	Ac-KKGVWQTHPRYFTMTWPDIKGEVIVLFGKK-NH2	3035
JB10238	802	D	Ac-KKGVWQTHPRYFTMTWPDIKGEVIVLFGKK-NH2	3046

도면39

시료 번호	EC50 [nM]	시료 명칭	시열 번호
JB10052	2.8	비오틴-1:tds-KKSGVWQTHPRYFWTMWPDIKGEVIVLFGTSKK-NH2	3004
JB10053	50.3	비오틴-1:tds-SGNTFVDERLLYFLTIGNMGMYAAQLKRTS-NH2	3006
JB10054	2.1	비오틴-1:tds-SGRGCTKVVFTFRHNKLGYEERYNCT-NH2	3002
JB10057	>5000	Ac-SGNTFVDERLLYFLTIGNMGMYAAQLKRTS-1:tds-라이신(비오틴)-NH2	3018
JB10058	2.4	Ac-SGRGCTKVVFTFRHNKLGYEERYNCT-1:tds-라이신(비오틴)-NH2	3003
JB10103	4.8	Ac-KKSGVWQTHPRYFWTMWPDIKGEVIVLFGTS-1:tds-KK-라이신(비오틴)-NH2	3005
JB10105	>10000	비오틴-1:tds-SGQFWHGLLPKGIVLNWTKPWWMIGAFIS-NH2	3015
JB10106	>10000	Ac-SGQFWHGLLPKGIVLNWTKPWWMIGAFIS-1:tds-라이신(비오틴)-NH2	3016
JB10113	458.7	비오틴-1:tds-LSLVGSEAVLCA-NH2	3007
JB10117	>50000	비오틴-1:tds-SGRFTIRLWYTSWDRLPWYMPKQYVLSSTS-NH2	3019
JB10118	>50000	비오틴-1:tds-SGSYQWWARPYRMWGLPYWNQRYVFPWNTS-NH2	3020
JB10128	>5000	Ac-1:tds-SGRVSYWGVKWSQQMPISWWDIWTTHDTS-NH2	3017
JB10130	1.2	비오틴-1:tds-SGRGCTKVVFTFRHNKLGYEERYNCT-NH2	3001
JB10135	>50000	비오틴-1:tds-LLYFLTIGNMGMYAAQLKRT-NH2	3021
JB10136	16461.9	비오틴-1:tds-LLYFLTIGNMGMYAAQLKRT-NH2	3014
JB10137	4120.3	비오틴-1:tds-YFLTIGNMGMYAAQLKRTS-NH2	3013
JB10138	2354.6	비오틴-1:tds-YFLTIGNMGMYAAQLKRT-NH2	3012
JB10139	755.5	비오틴-1:tds-SGRGCTKVVFTFRHNKLGYEERYNCT-NH2	3008
JB10140	924.0	비오틴-1:tds-SGRGCTKVVFTFRHNKLGYEERYNCT-NH2	3010
JB10141	800.3	비오틴-1:tds-SGRGCTKVVFTFRHNKLGYEERYNCT-NH2	3009
JB10142	>50000	비오틴-1:tds-SGRGCTKVVFTFRHNKLGYEERYNCT-NH2	3022
JB10143	4229.9	비오틴-1:tds-KVVFTFRHNKLGYEERYNCT-NH2	3023
JB10144	1327.0	비오틴-1:tds-SGRGCTKVVFTFRHNKLGYEERYNCT-NH2	3011
JB10145	650.9	비오틴-1:tds-SGRGCTKVVFTFRHNKLGYEERYNCT-NH2	3024

서열 목록

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

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<220><221> MOD_RES

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<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

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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, Glu, 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

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<210> 3

<211> 25

<212> PRT

<213> Artificial Sequence

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<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

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<211> 18

<212> PRT

<213> Artificial Sequence

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<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

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<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

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<211> 20

<212> PRT

<213> Artificial Sequence

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<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

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<210> 7

<211> 19

<212> PRT

<213> Artificial Sequence

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<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
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<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
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 <220><221>
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 <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

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<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

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<223> N-terminal acetylation

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<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

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<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

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<223> N-terminal acetylation

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<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

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<210> 14

<211> 25

<212> PRT

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<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

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25

<210> 15

<211> 36

<212> PRT

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<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

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<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

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<210> 17

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<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

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<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

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<210> 19

<211> 20

<212> PRT

<213> Artificial Sequence

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<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

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<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

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<210> 21

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<212> PRT

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<223> N-terminal acetylation

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<222> (20)..(20)

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<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

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<210> 22

<211> 20

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<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

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<220><221> MOD_RES

<222> (20)..(20)

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<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

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<210> 24

<211> 20

<212> PRT

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<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

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

1 5 10 15

Arg Ala Lys Leu

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<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

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<220><221> MOD_RES

<222> (20)..(20)

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<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

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<210> 27

<211> 20

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<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

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

1 5 10 15

Arg Ala Lys Leu

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

1 5 10 15

Arg Ala Lys Leu

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1 5 10 15

Arg Ala Lys Leu

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<222> (20)..(20)
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1 5 10 15

Arg Ala Lys Leu

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<210> 31

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<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

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<210> 32

<211> 20

<212> PRT

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<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

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<210> 33

<211> 20

<212> PRT

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<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

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<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

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<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

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<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

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<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

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<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

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<210> 38

<211> 20

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 1 5 10 15
 Arg Ala Lys Leu
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 <222> (20)..(20)
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 <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
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<222> (20)..(20)

<223> C-terminal amidation

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1 5 10 15

Arg Ala Lys Leu

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<210> 41

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<222> (20)..(20)

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<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

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<220><221> MOD_RES

<222> (20)..(20)

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<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

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<220><221> MOD_RES

<222> (20)..(20)

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<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

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<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

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<210> 45

<211> 20

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<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

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<212> PRT

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<220><221> MOD_RES

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<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

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<220><221> MOD_RES

<222> (5)..(5)

<223> N-methyl-Gly

<220><221> MOD_RES

<222> (20)..(20)

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<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

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<211> 20

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<220><221> MOD_RES

<222> (20)..(20)

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<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

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<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

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<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

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<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

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<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

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<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

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<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

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<223> N-methyl-Gly

<220><221> MOD_RES

<222> (20)..(20)

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<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

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

1 5 10 15

Xaa Ala Lys Leu

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<210> 57

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<223> (S)-Ornithine

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<223> Xaa can be any naturally occurring amino acid

<220><221> MOD_RES

<222> (20)..(20)

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<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

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<210> 58

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<220><221> MOD_RES

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

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<222> (20)..(20)

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Xaa Ala Lys Leu

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<223> D-Ala

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<222> (20)..(20)

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1 5 10 15

Arg Ala Lys Leu

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<210> 60

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<220><221> MOD_RES

<222> (5)..(5)

<223> D-Ala

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

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1 5 10 15

Arg Ala Lys Leu

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<210> 61

<211> 20

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<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

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<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

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<210> 63

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1 5 10 15

Arg Ala Lys Leu

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<210> 65

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

<220><221> MOD_RES

<222> (20)..(20)

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Ala Ala Lys Leu

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<210> 66

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1 5 10 15

Xaa Ala Lys Leu

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<210> 67

<211> 20

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<222> (5)..(5)

<223> N-methyl-Gly

<220><221> MOD_RES

<222> (20)..(20)

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<400> 67

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1 5 10 15

Arg Ala Lys Leu

20

<210> 68

<211> 20

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

<220><221> MOD_RES

<222> (20)..(20)

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<400> 68

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1 5 10 15

Arg Ala Lys Leu

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<210> 69

<211> 20

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<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

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<210> 70

<211> 20

<212> PRT

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<220><221> MOD_RES

<222> (5)..(5)

<223> N-methyl-Gly

<220><221> MOD_RES

<222> (20)..(20)

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<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

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<210> 71

<211> 20

<212> PRT

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<223> N-methyl-Gly

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<223> Xaa is (S)-Norleucine

<220><221> MOD_RES

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<400> 71

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1 5 10 15

Xaa Ala Lys Leu

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<210> 72

<211> 20

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<220><221> MOD_RES

<222> (20)..(20)

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<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

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<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

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<210> 74

<211> 20

<212> PRT

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<220><221> MOD_RES

<222> (5)..(5)

<223> N-methyl-Gly

<220><221> MOD_RES

<222> (20)..(20)

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<400> 74

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

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10

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Arg Ala Lys Leu

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<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

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<220><221> MOD_RES

<222> (20)..(20)

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<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

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<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

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1 5 10 15

Arg Ala Lys Leu

20

<210> 78

<211> 20

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1 5 10 15

Arg Ala Lys Leu

20

<210> 79

<211> 20

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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

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1 5 10 15

Arg Ala Lys Leu

20

<210> 81

<211> 20

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<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

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<210> 82

<211> 20

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<222> (17)..(17)

<223> (S)-2-Propargylglycine

<220><221> MOD_RES

<222> (20)..(20)

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<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

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<220><221> MOD_RES

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<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

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<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

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<220><221> MOD_RES

<222> (20)..(20)

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<400> 85

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1 5 10 15

Xaa Ala Lys Leu

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<210> 86

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<400> 86

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1 5 10 15

Leu Ala Lys Leu

20

<210> 87

<211> 20

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<220><221> MOD_RES

<222> (20)..(20)

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<400> 87

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1 5 10 15

Arg Leu Lys Leu

20

<210> 88

<211> 20

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<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

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<400> 89

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1 5 10 15

Arg Ala Lys Leu

20

<210> 90

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<220><221> MOD_RES

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<400> 90

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1 5 10 15

Arg Ala Lys Leu

20

<210> 91

<211> 20

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1 5 10 15

Arg Met Lys Leu

20

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1 5 10 15

Ala Ala Lys Leu

20

<210> 93

<211> 20

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<222> (20)..(20)

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1 5 10 15

Arg Ala Lys Leu

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<210> 94

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<220><221> MOD_RES

<222> (20)..(20)

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<400> 94

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1 5 10 15

Arg Asn Lys Leu

20

<210> 95

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1 5 10 15

Arg Ala Lys Leu

20

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<220><221> MOD_RES

<222> (20)..(20)

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Xaa Ala Lys Leu

20

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1 5 10 15

Arg Ala Lys Leu

20

<210> 98

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Arg Ala Lys Leu

20

<210> 99

<211> 20

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<220><221> MOD_RES

<222> (20)..(20)

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<400> 99

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1 5 10 15

Arg Ala Lys Leu

20

<210> 100

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<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

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1 5 10 15

Arg Ala Lys Leu

20

<210> 101

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<220><221> MOD_RES

<222> (20)..(20)

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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

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<220><221> MOD_RES

<222> (20)..(20)

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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

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<222> (20)..(20)

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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

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<223> Xaa is Norleucine

<220><221> MOD_RES

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<400> 104

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

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Xaa Ala Lys Leu

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<210> 105

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<220><221> MOD_RES

<222> (20)..(20)

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<400> 105

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1 5 10 15

Arg Arg Lys Leu

20

<210> 106

<211> 20

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<220><221> MOD_RES

<222> (5)..(5)

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<220><221> MOD_RES

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<223> Xaa is Norleucine

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<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

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<210> 107

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<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

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1 5 10 15

Arg Ala Lys Leu

20

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<222> (5)..(5)

<223> N-methyl-Gly

<220><221> MOD_RES

<222> (20)..(20)

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<400> 109

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1 5 10 15

Arg Ala Lys Leu

20

<210> 110

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<400> 110

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1 5 10 15

Arg Ala Lys Leu

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<220><221> MOD_RES

<222> (20)..(20)

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<400> 111

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1 5 10 15

Arg Ala Lys Leu

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<210> 112

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1 5 10 15

Arg Ala Lys Leu

20

<210> 113

<211> 20

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<223> Xaa is Norleucine

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1 5 10 15

Xaa Ala Lys Leu

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<400> 114

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1 5 10 15

Arg Ala Lys Leu

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<223> D-Lys

<220><221> MOD_RES

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1 5 10 15

Arg Ala Lys Leu

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<210> 116

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<222> (20)..(20)

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1 5 10 15

Arg Ala Lys Leu

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<211> 20

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<223> D-Asp

<220><221> MOD_RES

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

1 5 10 15

Arg Ala Lys Leu

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<210> 118

<211> 20

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<222> (5)..(5)

<223> D-Lys

<220><221> MOD_RES

<222> (20)..(20)

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<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

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1 5 10 15

Arg Ala Lys Leu

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<223> D-Lys

<220><221> MOD_RES

<222> (20)..(20)

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<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

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<223> D-Lys

<220><221> MOD_RES

<222> (20)..(20)

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

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5

10

15

Arg Ala Lys Leu

20

<210> 122

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<220><221> MOD_RES

<222> (20)..(20)

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<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

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<223> D-Asp

<220><221> MOD_RES

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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

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<223> N-terminal Carboxyfluorescein

<220><221> MOD_RES

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<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

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<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

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 <223> C-terminal amidation
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Phe Gln Ser Lys Ala Asn Val Phe Val Asp Gly Tyr Phe Ala Arg Leu

1 5 10 15

Xaa Ala Lys Leu
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<210> 127
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 <220><221> MOD_RES
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 <223> C-terminal amidation
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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

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<223> D-Pro

<220><221> MOD_RES

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<223> C-terminal N-ethyl

<400> 128

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1 5 10 15

Arg Ala Lys Leu

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<210> 129

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<400> 129

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1 5 10 15

Arg Ala Lys Leu

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<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

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<220><221> MOD_RES

<222> (20)..(20)

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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

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<220><221> MOD_RES

<222> (20)..(20)

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<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

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<222> (20)..(20)

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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

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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

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1 5 10 15

Arg Ala Lys Leu

20

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1 5 10 15

Arg Ala Lys Leu

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<220><221> MOD_RES

<222> (20)..(20)

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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

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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

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<211> 20

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<400> 139

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1 5 10 15

Cys Ala Lys Leu

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Phe Gln Ser Lys Ala Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu
 1 5 10 15
 Cys Ala Lys Leu
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<210> 141
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Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Met Arg Leu
 1 5 10 15
 Cys Ala Lys Leu
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<210> 142
 <211> 20

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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
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 <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
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<220><221> MOD_RES

<222> (20)..(20)

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<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

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<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

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<220><221> MOD_RES

<222> (20)..(20)

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<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

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<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

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<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

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<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

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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

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<220><221> MOD_RES

<222> (20)..(20)

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<400> 150

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1 5 10 15

Cys Ala Lys Leu

20

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<222> (20)..(20)

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<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

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<220><221> MOD_RES

<222> (20)..(20)

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<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

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<222> (20)..(20)

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<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

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<220><221> MOD_RES

<222> (20)..(20)

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<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

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<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

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<220><221> MOD_RES

<222> (20)..(20)

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<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

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<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

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<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

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<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

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<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

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<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

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<220><221> MOD_RES

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 <220><221> MOD_RES
 <222> (20)..(20)
 <223> C-terminal amidation
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 1 5 10 15
 Xaa Ala Lys Leu
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 1 5 10 15
 Xaa Ala Lys Leu
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 <223> Xaa is 2-Amino-isobutyric acid
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 1 5 10 15
 Xaa Ala Lys Leu
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 <223> N-methyl-Gly
 <220><221> MOD_RES
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<223> Xaa is 2-Amino-isobutyric acid

<220><221> MOD_RES

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<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

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<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

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<210> 167

<211> 21

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 <222> (14)..(21)
 <223> Cys residues linked via disulfide bond
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 <222> (21)..(21)
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 1 5 10 15

Xaa Ala Lys Leu Cys
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 <222> (20)..(20)
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<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

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<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

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<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

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<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

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<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

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<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

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<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

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<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

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<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

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<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

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<222> (17)..(17)

<223> Xaa is 2-Amino-isobutyric acid

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<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

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<220><221> MOD_RES

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<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

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<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

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<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

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 1 5 10 15
 Leu Arg Ala Lys Leu
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<210> 180

<211> 22

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<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

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<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

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<210> 182

<211> 26

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<222> (1)..(1)

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<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

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<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

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<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

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<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

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<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

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<220><221> MOD_RES

<222> (20)..(20)

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<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

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<220><221> MOD_RES

<222> (20)..(20)

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<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

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<222> (20)..(20)

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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

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<223> N-terminal Carboxyfluorescein

<220><221>

> MOD_RES

<222> (20)..(20)

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<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

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<220><221> MOD_RES

<222> (20)..(20)

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1 5 10 15

Arg Ala Lys Leu

20

<210> 191

<211> 20

<212> PRT

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<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

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<220><221> MOD_RES

<222> (20)..(20)

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<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

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<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

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<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

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<220><221> MOD_RES

<222> (20)..(20)

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<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

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<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

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<222> (1)..(1)

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<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

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<222> (1)..(1)

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<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

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 <222> (20)..(20)
 <223> C-terminal amidation
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 1 5 10 15
 Arg Ala Lys Leu
 20

<210> 199
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 <220><221> MOD_RES

<222> (20)..(20)
 <223> C-terminal amidation
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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
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<212> PRT
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 <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
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 <223> N-terminal acetylation
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 <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
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 <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
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 <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

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<220><221> MOD_RES

<222> (20)..(20)

<223> beta-Homoleucine

<220><221> MOD_RES

<222> (20)..(20)

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<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

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<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

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<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

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<220><221> MOD_RES

<222> (5)..(5)

<223> D-Lys

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<222> (20)..(20)

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<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

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<210> 208

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<222> (20)..(20)

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<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

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<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 209

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1 5 10 15

Arg Ala Lys Leu

20

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<223> C-terminal amidation

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

1 5 10 15

Arg Ala Lys Leu

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 1 5 10 15
 Arg Ala Lys Leu
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 <222> (20)..(20)
 <223> C-terminal amidation
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 Phe Gln Ser Lys Gly Asn Val Phe Val Asp Gly Tyr Phe Glu Arg Leu
 1 5 10 15
 Ala Ala Lys Leu
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<223> N-methyl-Gly

<220><221> MOD_RES

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<223> Xaa is Norleucine

<220><221> MOD_RES

<222> (20)..(20)

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<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

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<210> 214

<211> 20

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<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

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<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

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<211> 20

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<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 216

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1 5 10 15

Ile Ala Lys Leu

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<210> 217
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 <223> D-Ala
 <220><221> MOD_RES
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Phe Gln Ser Lys Ala Asn Val Phe Val Phe Gly Tyr Phe Ala Arg Leu

1 5 10 15
 Arg Ala Lys Leu
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<210> 218
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 <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

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<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

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<211> 20

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1 5 10 15

Arg Ala Lys Leu

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<222> (20)..(20)

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<400> 221

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1 5 10 15

Arg Ala Lys Leu

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<222> (20)..(20)

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1 5 10 15

Arg Ala Lys Leu

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<222> (20)..(20)

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<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

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<211> 20

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<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

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<220><221> MOD_RES

<222> (20)..(20)

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<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

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<220><221> MOD_RES

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<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

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<220><221> MOD_RES

<222> (20)..(20)

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<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

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<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal N-methyl

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1 5 10 15

Arg Ala Lys Leu

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<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

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<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 230

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1 5 10 15

Arg Ala Lys Leu

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<210> 231

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 1 5 10 15
 Arg Ala Lys Leu
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<210> 232
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<222> (20)..(20)
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 1 5 10 15
 Arg Ala Lys Leu
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<210> 233
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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
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 <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
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<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

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<222> (1)..(1)

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<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

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<222> (1)..(1)

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<220><221> MOD_RES

<222> (20)..(20)

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<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

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<220><221> MOD_RES

<222> (20)..(20)

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<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

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<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

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<222> (1)..(1)

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<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

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<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

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<220><221> MOD_RES

<222> (20)..(20)

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<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

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<222> (1)..(1)

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<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

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<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

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<222> (1)..(1)

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<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

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<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

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<220><221> MOD_RES

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<220><221> MOD_RES
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 <220><221> MOD_RES
 <222> (20)..(20)
 <223> C-terminal amidation
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 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
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 1 5 10 15
 Xaa Ala Lys Leu
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<211> 20

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<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

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<222> (1)..(1)

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<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

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 <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			
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<210> 252
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 <220><221> MOD_RES
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 <223> PEGYLATION
 <220><221> MOD_RES
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 <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

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<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

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<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

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<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

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<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
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<220><221> MOD_RES
 <222> (20)..(20)
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<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
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 <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
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 <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
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<210> 260
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 <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
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<210> 261
 <211> 20
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<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

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<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

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<220><221> MOD_RES

<222> (20)..(20)

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<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

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<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

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<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

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<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

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<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

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<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

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<220><221> MOD_RES

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<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

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<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

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<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

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 <223> beta-Homoasparagin
 <220><221> MOD_RES
 <222> (20)..(20)
 <223> C-terminal amidation
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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

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 <223> beta-Homoaspartic acid
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 <223> C-terminal amidation
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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

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<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

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<222> (1)..(1)

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<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

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<220><221> MOD_RES

<222> (20)..(20)

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<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

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<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

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<220><221> MOD_RES

<222> (20)..(20)

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<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

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<220><221> MOD_RES

<222> (20)..(20)

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<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

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<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

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<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
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 <222> (20)..(20)
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 <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
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 <222> (20)..(20)
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 <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
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<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

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<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

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<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

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<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

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<220><221> MOD_RES

<222> (20)..(20)

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<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

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<222> (20)..(20)

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<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

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<222> (1)..(1)

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<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

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 <223> D-Lys
 <220><221> MOD_RES
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Phe Gln Ser Lys Lys Asn Val Phe Val Phe Gly Tyr Phe Glu Arg Leu
 1 5 10 15

Arg Ala Lys Leu
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<210> 291
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 <223> D-Phe
 <220><221> MOD_RES
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 <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

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<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

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<220><221> MOD_RES

<222> (17)..(17)

<223> omega-methyl-Arg

<220><221> MOD_RES

<222> (20)..(20)

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<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

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<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

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<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

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<222> (20)..(20)

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<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

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<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

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<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

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<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

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<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

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<222> (1)..(1)

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<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

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<220><221> MOD_RES

<222> (5)..(5)

<223> D-Ala

<220><221> MOD_RES

<222> (20)..(20)

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<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

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<220><221> MOD_RES

<222> (1)..(1)

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<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

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<220><221> MOD_RES

<222> (5)..(5)

<223> D-Ala

<220><221> MOD_RES

<222> (20)..(20)

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<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

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<222> (1)..(1)

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<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

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<222> (1)..(1)

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<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

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<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

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<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

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<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

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<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

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<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
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 <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
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<222> (20)..(20)
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 <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
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 <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
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 <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
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<222> (20)..(20)

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<400> 314

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Gln Lys Leu

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Arg Ala Arg Leu

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Arg Ala Lys Arg

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Arg Ala Lys Leu

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Thr Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Val Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Trp Lys Leu

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Arg Ala Lys Trp

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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1 5 10 15

Tyr Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Ala Ala Lys Leu

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Ala Ala Lys Leu

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Ala Ala Lys Leu

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Ala Ile Lys Leu

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Ala Val Lys Leu

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Ala Ala Lys Leu

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Ala Ala Lys Leu

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Ala Ala Lys Leu

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Ala Ala Lys Leu

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Ala Ala Lys Leu

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Ala Ala Lys Leu

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Ala Ala Arg Leu

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Ala Ala Lys Leu

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Ala Ala Lys Leu

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Ala Ala Lys Leu

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Ala Ala Lys Leu

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Ala Ala Lys Leu

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 Arg Ala Lys Leu
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 Arg Ala Lys Leu
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Arg Ala Lys Leu

20

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Arg Ala Lys Leu

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

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Arg Ala Lys Leu

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Arg Cys Lys Leu

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

1 5 10 15

Cys Ala Lys Leu

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Cys Ala Lys Leu

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Cys Ala Lys Leu

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Cys Ala Lys Leu

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Arg Ala Lys Leu

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Cys Ala Lys Leu

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1 5 10 15

Cys Ala Lys Leu

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Cys Ala Lys Leu

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Cys Ala Lys Leu

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Cys Ala Lys Leu

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Cys Ala Lys Leu

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Cys Ala Lys Leu

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Cys Ala Lys Leu

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Cys Arg Lys Leu

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Cys Ala Lys Leu

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Cys Ala Lys Leu

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Cys Ala Lys Phe

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Cys Ala Lys Leu

20

<210> 389

<211> 20

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<400> 389

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1 5 10 15

Cys Ala Lys Leu

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 Cys Ala Arg Leu
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<400> 392

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Cys Ala Lys Leu

20

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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

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<211> 20

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1 5 10 15

Cys Ala Lys Leu

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Cys Phe Lys Leu

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1 5 10 15

Ser Ala Lys Leu

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1 5 10 15

Ser Ala Lys Leu

20

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1 5 10 15

Ser Ala Lys Leu

20

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<211> 20

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<220><221> MOD_RES

<222> (20)..(20)

<223> C-terminal amidation

<400> 399

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1 5 10 15

Ser Ala Lys Leu

20

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 1 5 10 15
 Xaa Ala Lys Xaa
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1 5 10 15

Xaa Ala Lys Leu Cys

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<210> 402

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<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

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<210> 403

<211> 21

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<222> (21)..(21)

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<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

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1 5 10 15

Leu Xaa Ala Lys Leu

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 Phe Ala Lys Leu
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<210> 406
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 1 5 10 15
 Leu Arg Ala Lys Lys Lys
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<210> 407
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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

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1 5 10 15

Arg Ala Lys Leu

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<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

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1 5 10 15

Arg Ala Lys Leu

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<210> 411

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1 5 10 15

Arg Ala Lys Leu

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<210> 412

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<222> (20)..(20)

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<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

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<211> 21

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<220><221> MOD_RES

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<223> Xaa is (13-Amino-4,7,10-trioxa-tridecyl)-succinamic acid

<220><221> MOD_RES

<222> (21)..(21)

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1 5 10 15

Arg Leu Arg Ala Lys

20

<210> 414

<211> 20

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<220><221> MOD_RES

<222> (20)..(20)

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<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

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<222> (20)..(20)

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

1 5 10 15

Arg Ala Lys Leu

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<222> (20)..(20)

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1 5 10 15

Arg Ala Val Leu

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1 5 10 15

Arg Ala Lys Leu

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<223> (S)-N-methyl-Phe

<220><221> MOD_RES

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1 5 10 15

Arg Ala Lys Leu

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 Arg Ala Lys Leu
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Arg Ala Lys Leu

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<210> 421

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<220><221> MOD_RES

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Arg Ala Lys Leu

20

<210> 422

<211> 20

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<223> beta-Homolysine

<220><221> MOD_RES

<222> (20)..(20)

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<400> 422

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1 5 10 15

Arg Ala Lys Leu

20

<210> 423

<211> 21

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<220><221> MOD_RES

<222> (21)..(21)

<223> C-terminal amidation

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400> 423

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Arg Ala Ala Lys Leu

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Arg Ala Lys Leu

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Xaa Ala Lys Leu

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 Arg Ala Lys Leu
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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Gly Lys Leu

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Arg Ala Lys Gly

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

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Arg Ala Lys Leu

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

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Phe

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Ala Ala Lys Leu

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 Arg Ala Lys Leu
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Arg Ala Lys Leu

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Arg Ala Lys Pro

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Ser Leu

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Arg Ala Leu Leu

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

1 5 10 15

Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Asp Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Glu Ala Lys Leu

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Arg Ala Lys Leu

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Xaa Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Gly Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg His Lys Leu

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Arg Ala Lys His

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Arg Ala Lys Ile

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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1 5 10 15

Cys Ala Lys Leu

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<210> 638

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1 5 10 15

Cys Ala Lys Leu

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<210> 639

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Cys Ala Lys Leu

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Cys Ala Lys Leu

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1 5 10 15

Cys Ile Lys Leu

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1 5 10 15

Cys Val Lys Leu

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1 5 10 15

Cys Ala Lys Leu

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<210> 644

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<400> 644

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1 5 10 15

Cys Phe Lys Leu

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1 5 10 15

Cys Ala Lys Leu

20

<210> 646

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1 5 10 15

Cys Ala Lys Leu

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1 5 10 15

Cys Ala Lys Leu

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 Cys Ala Lys Leu
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 Cys Ala Lys Leu
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<210> 650
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1 5 10 15

Cys Ala Lys Leu

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<210> 651

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<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

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<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

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<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

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<222> (20)..(20)

<223> C-terminal amidation

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

1 5 10 15

Cys Ala Lys Leu

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<220><221> MOD_RES

<222> (20)..(20)

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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

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<222> (20)..(20)

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<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

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1 5 10 15

Cys Ala Lys Leu

20

<210> 658

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<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

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<222> (20)..(20)

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<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

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<400> 660

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1 5 10 15

Cys Thr Lys Leu

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<210> 661

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<400> 661

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1 5 10 15

Cys Ala Lys Leu

20

<210> 662

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1 5 10 15

Cys Ala Arg Leu

20

<210> 663

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1 5 10 15

Cys Ala Lys Leu

20

<210> 664

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<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

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<210> 665

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<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

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1 5 10 15

Xaa Ala Lys Leu

20

<210> 666

<211> 20

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<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

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<222> (20)..(20)

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<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

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<223> Xaa can be any naturally occurring amino acid

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<222> (20)..(20)

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<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

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<210> 669

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<400> 669

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1 5 10 15

Xaa Ala Lys Leu

20

<210> 670

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DISULFID

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<222> (20)..(20)

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<400> 670

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1 5 10 15

Cys Ala Lys Leu

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<210> 671

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<220><221

> DISULFID

<222> (10)..(17)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (20)..(20)

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1 5 10 15

Cys Ala Lys Leu

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<210> 672

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<220>

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1 5 10 15

Arg Ala Lys Leu

20

<210> 673

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1 5 10 15

Arg Ala Lys Leu

20

<210> 674

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1 5 10 15

Arg Ala Lys Leu

20

<210> 675

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<223> (S)-N-methyl-Ser

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<400> 675

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1 5 10 15

Arg Ala Lys Leu

20

<210> 676

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<222> (9)..(9)

<223> (S)-N-methyl-Val

<220><221> MOD_RES

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<400> 676

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1 5 10 15

Arg Ala Lys Leu

20

<210> 677

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<400> 677

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1 5 10 15

Arg Ala Lys Leu

20

<210> 678

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<223> (S)-N-methyl-Glu

<220><221> MOD_RES

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1 5 10 15

Arg Ala Lys Leu

20

<210> 679

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20

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 1 5 10 15
 Arg Ala Lys Leu
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1 5 10 15

Arg Ala Lys Leu

20

<210> 682

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<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

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<222> (13)..(13)

<223> beta-Homophenylalanine

<220><221> MOD_RES

<222> (20)..(20)

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<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

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<223> beta-Homoleucine

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<400> 684

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1 5 10 15

Arg Ala Lys Leu

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<222> (15)..(15)

<223> Xaa is (S)-Citrullin

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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

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<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

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Arg Ala Lys Leu

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<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

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1 5 10 15

Arg Ala Lys Leu

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1 5 10 15

Arg Ala Lys Leu

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1 5 10 15

Arg Phe Lys Leu

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1 5 10 15

Arg Ala Lys Leu

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 Arg Ala Lys Leu
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1 5 10 15

Arg Ala Lys Leu

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<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

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1 5 10 15

Arg Ala Lys Leu

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<210> 698

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1 5 10 15

Arg Leu Lys Leu

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<223> D-Ser

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<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

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<210> 700

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<400> 700

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1 5 10 15

Arg Ala Lys Leu

20

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<211> 20

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<220><221> MOD_RES

<222> (20)..(20)

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<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

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<222> (20)..(20)

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<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

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<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

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1 5 10 15

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20

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 Gly Ala Lys Leu
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 <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
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 <210> 707
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<220><221> MOD_RES

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<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

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<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

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<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

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<220><221> MOD_RES

<222> (20)..(20)

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<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

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<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

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<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

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<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

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<400> 714

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1 5 10 15

Arg Ala Lys Leu

20

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

1 5 10 15

Arg Ala Lys Leu

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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

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1 5 10 15

Arg Ala Lys Leu

20

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1 5 10 15

Arg Ala Asp Leu

20

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<400> 719

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1 5 10 15

Arg Ala Lys Leu

20

<210> 720

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<400> 720

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1 5 10 15

Arg Ala Lys Leu

20

<210> 721

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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

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<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

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1 5 10 15

Arg Ala Lys Leu

20

<210> 724

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1 5 10 15

Arg Ala Lys Leu

20

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1 5 10 15

Leu Ala Lys Leu

20

<210> 726

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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

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<220><221> MOD_RES

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<400> 727

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1 5 10 15

Arg Ala Lys Leu

20

<210> 728

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<400> 728

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1 5 10 15

Arg Ala Lys Leu

20

<210> 729

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<223> D-Val

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1 5 10 15

Arg Ala Lys Leu

20

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1 5 10 15

Arg Ala Lys Leu

20

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

1 5 10 15

Arg Ala Lys Leu

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<400> 732

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Arg Ala Lys Ala

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1 5 10 15

Arg Ala Lys Asn

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<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

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

Ala Ala Arg Leu

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1 5 10 15

Ala Ala Lys Leu

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<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

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

1 5 10 15

His Ala Lys Leu

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<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

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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

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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

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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

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<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

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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

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1 5 10 15

Arg Ala Lys Leu

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1 5 10 15

Arg Ala Lys Asn

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1 5 10 15

Arg Ala Lys

<210> 750

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1 5 10 15

Arg Ala Lys Leu

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<210> 751

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1 5 10 15

Arg Ala Lys Leu

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<210> 752

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Arg Ala Lys Leu

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 1 5 10 15
 Arg Ala Lys Leu
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1 5 10 15

Arg Ala Lys Leu

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<223> (S)-N-methyl-Lys

<220><221> MOD_RES

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<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

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1 5 10 15

Arg Ala Lys Leu

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1 5 10 15

Arg Ala Lys Leu

20

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<223> beta-Ala

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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

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<223> beta-Tyr

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

1 5 10 15

Arg Ala Lys Leu

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1 5 10 15

Arg Ala Lys Leu

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<223> Xaa is Norleucine

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Arg Ala Lys Leu

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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

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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

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<400> 764

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1 5 10 15

Arg Ala Lys Leu

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

1 5 10 15

Arg Ala Lys Lys

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<210> 766

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1 5 10 15

Arg Ala Lys Leu

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

1 5 10 15

Arg Ala Lys Leu

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<210> 768

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<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

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<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

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<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

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1 5 10 15

Arg Ala Lys Leu

20

<210> 772

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1 5 10 15

Arg Ala Lys Leu

20

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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

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1 5 10 15

Phe Ala Lys Leu

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<210> 775

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1 5 10 15

Arg Ala Phe Leu

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

1 5 10 15

Arg Ala Lys Leu

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1 5 10 15

Arg Ala Lys Leu

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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

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1 5 10 15

Arg Ala Lys Leu

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<400> 780

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1 5 10 15

Arg Ala Lys Leu

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1 5 10 15

Arg Ala Lys Leu

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<400> 782

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1 5 10 15

Arg Ala Lys Leu

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<210> 783

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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

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<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

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<222> (20)..(20)

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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

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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

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Arg Ala Lys Leu

20

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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

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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

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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

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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1 5 10 15

Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Ser Ala Lys Leu

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Arg Ala Lys Ser

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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1 5 10 15

Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Ala Leu

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1 5 10 15

Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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1 5 10 15

Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Asp Leu

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Arg Ala Lys Asp

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Glu Leu

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Arg Ala Phe Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Gly Leu

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Arg Ala Lys Gly

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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1 5 10 15

Arg Ala Lys Leu

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1 5 10 15

Arg Ala Lys Leu

20

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1 5 10 15

Arg Ala Lys Leu

20

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1 5 10 15

Arg Ala Lys Leu

20

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1 5 10 15

Arg Ala Lys Leu

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Arg Ala Ile Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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1 5 10 15

Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Leu Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Asn Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Pro Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Val Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Trp Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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1 5 10 15

Arg Ala Tyr Leu

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Arg Ala Lys Leu

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1 5 10 15

Arg Ala Lys Asp

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1 5 10 15

Ala Ala Lys Leu

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Ala Ala Lys Leu

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Ala Ala Lys Leu

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Ala Ala Lys Leu

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1 5 10 15

Ala Ala Lys Leu

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Ala Ala Lys Leu

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1 5 10 15

Ala Ala Lys Leu

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1 5 10 15

Arg Ala Lys Leu

20

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1 5 10 15

Arg Ala Lys Leu

20

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Arg Ala Lys Leu

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 Arg Ala Lys Leu
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 Arg Ala Lys Leu
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1 5 10 15

Cys Ala Lys Leu

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Cys Ala Lys Leu

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1 5 10 15

Cys Ala Lys Leu

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 Xaa Ala Lys Leu
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Xaa Ala Lys Leu

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Xaa Ala Lys Leu

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

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Xaa

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Arg Ala Lys

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 Glu Arg Leu Arg Ala Lys Leu Lys Lys

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Lys Phe Val Phe Arg

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Arg Phe Val Gly Val

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Leu Arg Ala Lys Leu

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Arg Ala Lys Leu

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Arg Ala Lys Leu

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

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Ser Lys Lys

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1 5 10 15

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

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<210> 1003

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<222> (7)..(18)

<223> Cys residues linked via disulfide bond

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<222> (23)..(23)

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

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Ser Cys Val Trp Val Lys Phe

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Ser Cys Val Trp Val Lys Phe

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Ser Cys Val Trp Val Lys Phe

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Ser Cys Val Trp Val Lys Phe

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1 5 10 15

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1 5 10 15

Ser Cys Val Trp Val Lys Phe

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1 5 10 15

Ser Cys Val Trp Val Lys Phe

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1 5 10 15

Ser Cys Val Trp Val Lys Phe

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Ser Cys Val Trp Val Lys Phe

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1 5 10 15

Ser Cys Val Trp Val Lys Phe

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1 5 10 15

Ser Cys Val Trp Val Lys Phe

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1 5 10 15

Ser Cys Val Trp Val Lys Leu

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1 5 10 15

Ser Cys Val Trp Val Lys Phe

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<210> 1022
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 1 5 10 15

Ser Cys Val Trp Val Lys Phe
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1 5 10 15

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<210> 1024

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<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1024

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1 5 10 15

Ser Cys Val Trp Val Lys Phe
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<210> 1025

<211> 23

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 1 5 10 15

Ser Cys Val Trp Val Lys Phe
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 1 5 10 15

Ser Cys Val Trp Val Lys Phe
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<210> 1027
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<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

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<210> 1028

<211> 23

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<222> (7)..(18)

<223> Cys residues linked via disulfide bond

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<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

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<210> 1029
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 1 5 10 15

Ser Cys Val Trp Val Lys Tyr
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<210> 1030
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1 5 10 15

Ser Cys Val Trp Val Arg Phe

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<210> 1031

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1 5 10 15

Ser Cys Val Trp Val Lys Ala

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<210> 1032

<211> 23

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1 5 10 15

Thr Cys Val Trp Val Lys Phe

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<210> 1033

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1 5 10 15

Ser Cys Val Trp Val Lys Ser

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<210> 1034

<211> 23

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<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

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<210> 1035

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1 5 10 15

Ser Cys Val Trp Val Lys Ser

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<210> 1036
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 <223> C-terminal amidation
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 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
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<210> 1037
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 <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
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<210> 1038

<211> 23

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<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
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<210> 1039

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<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

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<210> 1040

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1 5 10 15

Ser Cys Ala Trp Val Lys Phe

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<210> 1041

<211> 23

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<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

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<210> 1042

<211> 23

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<222> (7)..(18)

<223> Cys residues linked via disulfide bond

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<222> (23)..(23)

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<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

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<210> 1043
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 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
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<210> 1044
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 <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
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<210> 1045

<211> 23

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<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
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<210> 1046

<211> 23

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1 5 10 15

Ser Cys Ala Trp Val Lys Phe

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<210> 1047

<211> 31

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1 5 10 15

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

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<210> 1048

<211> 23

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<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

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<210> 1049

<211> 23

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<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

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<210> 1050
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1	5	10	15
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	Lys	Phe	
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<222> (23)..(23)

<223> C-terminal amidation

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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

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<210> 1052

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<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

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<210> 1053

<211> 23

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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

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<210> 1054

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<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

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<210> 1055

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 1 5 10 15
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 <210> 1056
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1 5 10 15

Ser Cys Val Trp Val Lys Phe

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<210> 1057

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<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

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<210> 1058

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 1 5 10 15
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 1 5 10 15
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1 5 10 15

Ser Cys Val Trp Val Lys Phe

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<210> 1061

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<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

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<210> 1062

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 1 5 10 15
 Ser Cys Val Trp Val Lys Phe
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 1 5 10 15
 Ser Cys Val Trp Val Lys Phe
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 1 5 10 15
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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

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<210> 1066

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<222> (7)..(18)

<223> Cys residues linked via disulfide bond

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1 5 10 15

Ser Cys Val Trp Val Lys Phe

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<222> (7)..(18)

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1 5 10 15

Ser Cys Val Trp Val Lys Phe

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<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

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1 5 10 15

Ser Cys Val Trp Val Lys Phe

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<222> (7)..(18)

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<400> 1069

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1 5 10 15

Ser Cys Val Trp Val Lys Phe

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<400> 1070

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Ser Cys Val Trp Val Ser Phe

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1 5 10 15

Ser Cys Val Trp Val Lys Phe

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<210> 1073

<211> 22

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1 5 10 15

Cys Val Trp Val Lys Phe

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<210> 1074

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 <220><221> MOD_RES
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 1 5 10 15
 Ser Cys Val Trp Val Lys Phe
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 1 5 10 15
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<222> (7)..(18)

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<220><221> MOD_RES

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<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

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Ser Cys Val Trp Val Lys Phe

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<210> 1078

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<223> Cys residues linked via disulfide bond

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1 5 10 15

Ser Cys Val Trp Val Lys Phe

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1 5 10 15

Ser Cys Val Trp Val Lys Phe

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1 5 10 15

Ser Cys Val Trp Val Lys Phe

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1 5 10 15

Ser Cys Val Trp Val Ala Phe

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<210> 1083

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1 5 10 15

Ser Cys Val Trp Val Lys Ala

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1 5 10 15

Ser Cys Val Trp Val Lys Phe

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1 5 10 15

Ser Cys Val Trp Val Lys Phe

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1 5 10 15

Ser Cys Val Trp Val Lys Phe

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<210> 1087

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1 5 10 15

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1 5 10 15

Ser Cys Val Trp Val Gly Phe

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1 5 10 15

Ser Cys Val Trp Val Lys Gly

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1 5 10 15

Ser Cys Val Trp Val Lys Phe

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1 5 10 15

Ser Cys Val Trp Val Lys Phe

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<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

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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

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<210> 1094

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<222> (7)..(18)

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1 5 10 15

Ser Cys Val Trp Leu Lys Phe

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1 5 10 15
 Ser Cys Val Trp Val Lys Phe
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1 5 10 15

Ser Cys Val Trp Val Lys Phe

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<210> 1097

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<223> Cys residues linked via disulfide bond

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1 5 10 15

Ser Cys Ser Trp Val Lys Phe

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<210> 1098

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<222> (7)..(18)

<223> Cys residues linked via disulfide bond

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1 5 10 15

Ser Cys Val Trp Val Lys Phe

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<210> 1099

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<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

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<210> 1100

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<223> D-Pro

<220><221> MOD_RES

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1 5 10 15

Ser Cys Val Trp Val Lys Phe

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<210> 1101

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<222> (12)..(12)

<223> D-Asp

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

<400> 1101

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1 5 10 15

Ser Cys Val Trp Val Lys Phe

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<210> 1102

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 <220><221> MOD_RES
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1 5 10 15
 Ser Cys Val Trp Val Lys Phe
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<210> 1103
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 <220><221> DISULFID
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 <223> Cys residues linked via disulfide bond
 <220><221> MOD_RES
 <222> (25)..(25)
 <223> C-terminal amidation
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1 5 10 15

Gly Thr Met Ser Cys Val Trp Val Lys

20 25

<210> 1104

<211> 31

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<220><221> MOD_RES

<222> (12)..(12)

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<220><221> MOD_RES

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<220><221> MOD_RES

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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

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<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

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<223> D-Ala

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<220><221> MOD_RES

<222> (17)..(17)

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<220><221> MOD_RES

<222> (23)..(23)

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<400> 1106

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1 5 10 15

Ser Cys Val Trp Val Lys Phe

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<210> 1107

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1 5 10 15

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1 5 10 15

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Ser Cys Val Trp Val Lys Phe

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Ser Cys Val Trp Val Lys Phe

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Trp Val Lys Phe Arg Tyr Asp Thr Ser

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1 5 10 15

Trp Val Lys Phe

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<210> 1160

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Ser Ala Val Trp Val Lys Phe

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1 5 10 15

Ser Cys Val Trp Ala Lys Phe

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Met Ser Val Trp Val Lys Phe

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<210> 1163

<211> 23

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<211> 22

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223> C-terminal amidation

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1 5 10 15

Cys Val Trp Val Lys Phe

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1 5 10 15

Ser Cys Val Trp Val Lys Phe

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Ser Cys Val Trp Val Lys Phe

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<210> 1169

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<220><221> MOD_RES

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1 5 10 15

Ser Cys Val Trp Val Lys Phe

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<210> 1170

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Ser Cys Val Trp Val Lys Phe

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<210> 1171

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Ser Cys Val Trp Val Lys Phe

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1 5 10 15

Ser Cys Val Trp Val Lys Phe

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Val	Lys	Phe	
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1 5 10 15

Ser Cys Val Trp Val Lys Phe

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<210> 1175

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1 5 10 15

Ser Cys Val Trp Val Lys Phe

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<210> 1176

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1 5 10 15

Ser Cys Val Trp Val Lys Phe

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<210> 1177

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1 5 10 15

Ser Cys Val Trp Val Lys Phe

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<210> 1178

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1 5 10 15

Ser Cys Val Trp Val Lys Phe

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<210> 1179

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1 5 10 15

Ser Cys Val Trp Val Lys Phe

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1 5 10 15
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<210> 1181
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1 5 10 15

Ser Cys Val Trp Val Lys Phe

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1 5 10 15

Ser Cys Gly Trp Val Lys Phe

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1 5 10 15

Ser Cys Val Trp Val Lys Phe

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1 5 10 15

Ser Cys Val Trp Val Lys Phe

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1 5 10 15

Ser Cys Val Trp Val Lys Phe

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Ser Cys Val Trp Val Lys Phe

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1 5 10 15
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1 5 10 15

Ser Cys Val Trp Val Lys Pro

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1 5 10 15

Ser Cys Val Trp Val Lys Phe

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1 5 10 15

Ser Cys Val Trp Val Lys Phe

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<400> 1191

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1 5 10 15

Ser Cys Val Trp Val Lys Phe

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<210> 1192

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<223> D-Phe

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1 5 10 15

Ser Cys Val Trp Val Lys Phe

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<210> 1193

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<223>

> D-Lys

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Ser Cys Val Trp Val Lys Phe

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<210> 1194

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1 5 10 15

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Ser Cys Val Trp Val Lys Phe

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Ser Cys Val Trp Val Lys Phe

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Ser Cys Val Trp Val Lys Phe

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223> D-Pro

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Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Pro Gly Thr Met

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Ser Cys Val Trp Val Lys Phe

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Thr Met Ser Cys Val Trp Lys Lys

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1 5 10 15

Cys Val Trp Val Lys Phe Lys Lys

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1 5 10 15

Trp Val Lys Phe

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

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1 5 10 15

Trp Val Lys Phe

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

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Ser Cys Val Trp

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

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Trp Val Lys Phe

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Gly Thr Xaa Ser Ser Val Trp Val Lys Phe Arg Tyr Asp Thr Ser

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Trp Val Lys Phe

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1 5 10 15

Ser Ser Val Trp Val Lys Phe

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<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

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<223> Cys residues linked via disulfide bond

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<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

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Ser Gly Ala Ser Arg Tyr Lys Trp Phe Cys Gly Met Arg Asp Met Lys

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

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1 5 10 15

Met Lys Gly Thr Met Ser Lys Lys

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1 5 10 15

Val Lys Phe Arg Tyr Asp Lys Lys

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Phe Arg Tyr Asp Thr Ser Lys Lys

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1 5 10 15

Gly Thr Met Ser Cys Val

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1 5 10 15

Gly Thr Met

<210> 1219

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Phe Arg Tyr Asp Thr Ser

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Asp Thr Ser

<210> 1221

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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

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1 5 10 15

Gly Thr Met Ser

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 1 5 10 15
 Ser Cys Val Trp
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<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

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

1 5 10 15

Tyr Asp Thr Ser

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Tyr Asp Thr Ser

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

1 5 10 15

Phe Arg Tyr Asp

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

1 5 10 15

Trp Val Lys Phe

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1 5 10 15

Ser Ser Val Trp Val Lys Phe

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1 5 10 15

Ser Cys Val Trp Val Lys Phe

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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

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<210> 1232

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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

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<400> 1233

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1 5 10 15

Ser Cys Val Trp Val Lys Phe

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Ser Cys Val Trp Val Lys Phe
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 1 5 10 15

Ser Cys Val Trp Val Lys Phe

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<210> 1236

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<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

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<210> 1237

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<223> Cys residues linked via disulfide bond

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1 5 10 15

Met Ser Val Trp Val Lys Phe

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1 5 10 15

Met Ser Val Trp Val Lys Phe

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1 5 10 15

Cys Ser Val Trp Val Lys Phe

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<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

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<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

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<223> C-terminal amidation

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1 5 10 15

Ser Asp Val Trp Val Lys Phe

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<222> (7)..(18)

<223> Cys residues linked via disulfide bond

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<223> C-terminal amidation

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1 5 10 15

Ser Asp Val Trp Val Lys Phe

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<210> 1244

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<222> (7)..(17)

<223> Cys residues linked via disulfide bond

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<222> (22)..(22)

<223> C-terminal amidation

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1 5 10 15

Cys Val Trp Val Lys Phe

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<223> C-terminal amidation

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<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

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Ser Cys Val Trp Val Lys Phe
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<210> 1247

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 <223> C-terminal amidation
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<222> (23)..(23)

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<400> 1249

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1 5 10 15

Ser Cys Val Trp Val Lys Phe

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<210> 1250

<211> 23

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<400> 1250

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1 5 10 15

Pro Cys Val Trp Val Lys Phe

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<210> 1251

<211> 23

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1 5 10 15

Ser Cys Val Trp Val Lys Phe

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<210> 1252

<211> 23

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1 5 10 15

Ser Cys Val Trp Val Lys Phe

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<210> 1253

<211> 23

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1 5 10 15

Ser Cys Val Trp Val Lys Phe

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1 5 10 15

Ser Cys Val Trp Val Lys Phe

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<210> 1255

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Ser Cys Asp Trp Val Lys Phe

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1 5 10 15

Ser Cys Val Trp Val Lys Phe

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1 5 10 15

Ser Cys Val Trp Val Lys Phe

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1 5 10 15

Ser Cys Val Trp Val Lys Phe

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<223> Cys residues linked via disulfide bond

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1 5 10 15

Ser Cys Val Trp Phe Lys Phe

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<210> 1262

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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

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<210> 1263

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 Ser Cys Val Trp Val Lys Phe
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<210> 1264
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Ser Cys Val Trp Val Lys Phe

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<210> 1265

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1 5 10 15

Ser Cys Val Gly Val Lys Phe

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<210> 1266

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1 5 10 15

Ser Cys Val Trp Gly Lys Phe

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<210> 1267

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<223> Cys residues linked via disulfide bond

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1 5 10 15

Ser Cys Val Trp Val Lys Phe

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<210> 1268

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<223> Cys residues linked via disulfide bond

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1 5 10 15

Ser Cys Lys Trp Val Lys Phe

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<210> 1269

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1 5 10 15

Ser Cys Val Lys Val Lys Phe

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<210> 1270

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 1 5 10 15
 Ser Cys Val Trp Lys Lys Phe
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 <222> (23)..(23)
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 1 5 10 15

Ser Cys Val Trp Val Lys Phe

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<210> 1272

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1 5 10 15

Ser Cys Val Trp Val Lys Phe

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<210> 1273

<211> 23

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1 5 10 15

Ser Cys Val Leu Val Lys Phe

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<210> 1274

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1 5 10 15

Ser Cys Val Trp Val Lys Phe

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<210> 1275

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<223> Cys residues linked via disulfide bond

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<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

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<210> 1276

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<222> (23)..(23)

<223> C-terminal amidation

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1 5 10 15

Ser Cys Val Ser Val Lys Phe

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 1 5 10 15
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 1 5 10 15

Ser Cys Val Trp Val Lys Phe

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<210> 1279

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<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

<223> C-terminal amidation

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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

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<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

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<210> 1281

<211> 23

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<220><221> DISULFID

<222> (7)..(18)

<223> Cys residues linked via disulfide bond

<220><221> MOD_RES

<222> (23)..(23)

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1 5 10 15

Ser Cys Pro Trp Val Lys Phe

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<210> 1282

<211> 23

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<222> (7)..(18)

<223> Cys residues linked via disulfide bond

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<222> (23)..(23)

<223> C-terminal amidation

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1 5 10 15

Ser Cys Val Pro Val Lys Phe

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<210> 1283

<211> 23

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<222> (7)..(18)

<223> Cys residues linked via disulfide bond

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<222> (23)..(23)

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1 5 10 15

Ser Cys Val Trp Pro Lys Phe

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<210> 1284

<211> 23

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1 5 10 15

Ser Cys Val Trp Val Lys Phe

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<210> 1285

<211> 23

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<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

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Ser Lys Glu Met Ala

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Ser Trp Glu Met Ala

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1 5 10 15

Ser Trp Glu Met Ala

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1 5 10 15

Ser Trp Glu Met Ala

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1 5 10 15

Ser Trp Glu Met Ala

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1 5 10 15

Ser Trp Glu Met Ala

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Ser Trp Glu Met Ala

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1 5 10 15

Ser Trp Glu Met Ala

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1 5 10 15

Ser Trp Glu Met Ala

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1 5 10 15

Cys Trp Glu Met Ala

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<400> 2040

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1 5 10 15

Ser Cys Glu Met Ala

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<400> 2041

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1 5 10 15

Ser Trp Cys Met Ala

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<400> 2042

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1 5 10 15

Ser Trp Glu Cys Ala

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<210> 2043

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1 5 10 15

Ser Trp Glu Met Cys

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1 5 10 15

Ser Trp Glu Met Ala

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1 5 10 15

Ser Trp Glu Met Ala

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1 5 10 15

Ser Trp Glu Met Ala

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<210> 2047

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1 5 10 15

Ser Trp Glu Met Ala

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1 5 10 15

Gly Trp Glu Met Ala

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<400> 2049

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1 5 10 15

Ser Trp Glu Met Ala

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<210> 2050

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1 5 10 15

Ser Trp Glu Met Ala

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1 5 10 15

Ser Trp Glu Met Ala

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1 5 10 15

Ser Trp Glu Met Ala

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1 5 10 15

Ser Trp His Met Ala

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Ser Trp Glu Met His

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Ser Trp Glu Met Ala

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1 5 10 15

Ser Trp Glu Met Ala

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<400> 2057

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1 5 10 15

Ser Trp Glu Met Ala

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<400> 2058

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1 5 10 15

Ser Trp Glu Met Ala

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1 5 10 15

Ile Trp Glu Met Ala

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1 5 10 15

Ser Ile Glu Met Ala

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1 5 10 15

Ser Trp Glu Met Ile

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<400> 2062

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1 5 10 15

Ser Trp Glu Met Ala

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1 5 10 15

Ser Trp Glu Met Ala

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<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

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<210> 2065

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1 5 10 15

Ser Trp Glu Met Ala

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<400> 2066

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1 5 10 15

Ser Trp Glu Met Ala

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1 5 10 15

Ser Trp Glu Met Ala

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1 5 10 15

Ser Trp Glu Met Ala

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1 5 10 15

Ser Trp Glu Met Ala

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1 5 10 15

Ser Trp Glu Met Ala

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1 5 10 15

Lys Trp Glu Met Ala

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1 5 10 15

Ser Trp Lys Met Ala

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1 5 10 15

Ser Trp Glu Met Lys

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1 5 10 15

Ser Trp Glu Met Ala

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1 5 10 15

Ser Trp Glu Met Ala

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Ser Trp Glu Met Ala

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1 5 10 15

Ser Trp Glu Met Ala

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1 5 10 15

Ser Trp Glu Met Ala

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1 5 10 15

Ser Trp Glu Met Ala

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1 5 10 15

Ser Trp Glu Met Ala

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1 5 10 15

Ser Trp Glu Met Met

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1 5 10 15

Ser Trp Glu Met Ala

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1 5 10 15

Ser Trp Glu Met Ala

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1 5 10 15

Asn Trp Glu Met Ala

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1 5 10 15

Gln Trp Glu Met Ala

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1 5 10 15

Ser Trp Glu Met Gln

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1 5 10 15

Ser Trp Glu Met Ala

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1 5 10 15

Ser Trp Glu Met Ala

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1 5 10 15

Ser Trp Glu Met Ala

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1 5 10 15

Ser Trp Glu Met Ala

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1 5 10 15

Ser Trp Glu Met Ala

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1 5 10 15

Ser Trp Glu Met Ala

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1 5 10 15

Ser Trp Glu Met Ala

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Ser Trp Glu Met Ala

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1 5 10 15

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1 5 10 15

Ser Trp Glu Met Ala

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Ser Trp Glu Met Ala

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1 5 10 15

Ser Trp Glu Met Ala

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1 5 10 15

Arg Trp Glu Met Ala

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Ser Arg Glu Met Ala

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1 5 10 15

Ser Trp Arg Met Ala

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Ser Trp Glu Met Arg

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Ser Trp Glu Met Ala

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Ser Trp Glu Met Ala

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Ser Trp Glu Met Ala

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Ser Trp Glu Met Ala

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Ser Trp Glu Met Ala

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1 5 10 15

Ser Trp Glu Met Ala

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Thr Trp Glu Met Ala

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1 5 10 15

Ser Trp Glu Met Ala

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1 5 10 15

Ser Trp Glu Met Ala

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1 5 10 15

Ser Trp Glu Met Val

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1 5 10 15

Ser Trp Glu Met Ala

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1 5 10 15

Ser Trp Glu Met Ala

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1 5 10 15

Ser Trp Glu Met Ala

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1 5 10 15

Ser Trp Glu Met Ala

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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

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<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

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<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

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Met Lys Ser Arg Ser Leu Gly Leu Ala Tyr Phe Ala Lys His Ser Ser

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Leu Glu Val Leu Gln Thr Arg Lys Val Ala Ala Pro Tyr Tyr

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<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

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<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

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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

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<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

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Ser Gly Tyr Ala Ser Ala Pro Leu Ala Val Gln Leu His Val Ser Lys

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

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1 5 10 15

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

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1 5 10 15

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

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1 5 10 15

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

20 25 30

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

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1 5 10 15

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

20 25 30

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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

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1 5 10 15

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

20 25 30

Ser

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1 5 10 15

Ser Lys Glu Met Ala

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Ser Lys Glu Ile Ala

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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

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Ser Lys Glu Ile Ala

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Ser Trp Glu Met Ala

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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

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1 5 10 15

Ser Trp Ala Met Ala

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Ser Trp Glu Ala Ala

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Ser Trp Glu Met Ala

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<222> (21)..(21)

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Ser Trp Glu Met Ala

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 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
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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		

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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		

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<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

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<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

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<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

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<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

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<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

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<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

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<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

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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

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1 5 10 15

Ser Trp Glu Met Ala

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<223> C-terminal amidation

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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

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1 5 10 15

Ser Trp Glu Met Ala

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1 5 10 15

Ser Trp Glu Met Ala

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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

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<400> 2172

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1 5 10 15

Ser Phe Glu Met Ala

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1 5 10 15

Ser Trp Phe Met Ala

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1 5 10 15

Ser Trp Glu Phe Ala

20

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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

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1 5 10 15

Ser Trp Glu Met Ala

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1 5 10 15

Ser Trp Glu Met Ala

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1 5 10 15

Ser Trp Glu Met Ala

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<222> (21)..(21)

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<400> 2179

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gly Leu His Val His Lys Arg

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Ser Trp Glu Met Ala

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<222> (21)..(21)

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<400> 2180

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Gly His Val His Lys Arg

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Ser Trp Glu Met Ala

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<400> 2181

Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Gly His Lys Arg

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Ser Trp Glu Met Ala

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Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Leu His Val His Lys Arg

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Ser Trp Glu Gly Ala

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Ser Trp Glu Met Ala

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Ser Trp Glu Met Ala

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Ser Trp Glu Met Ala

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Ser Trp Glu Met Ala

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Ser Trp Glu Met Ala

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Ser Trp Glu Met Ala

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Ser Trp Glu Met Ala

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Ser Trp Glu Met Ala

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Ser Trp Glu Met Ala

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Ser Trp Glu Asn Ala

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Ser Trp Glu Met Ala

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Ser Trp Glu Met Ala

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Ser Trp Glu Met Ala

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Ser Trp Glu Met Ala

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Ser Trp Glu Met Pro

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Ser Trp Glu Met Ala

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Ser Trp Val Met Ala

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Ser Trp Glu Val Ala

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Ser Trp Glu Met Ala

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Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Tyr His Val His Lys Arg

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Ser Trp Glu Met Ala

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Ser Trp Glu Met Ala

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Ser Trp Glu Met Ala

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Ser Tyr Glu Met Ala

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Ser Trp Glu Met Tyr

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Leu Gly Ser Ser Leu Phe Pro Lys Tyr Ala Glu Val Lys Ala

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Ser Lys Arg Ser Lys Glu Met Ala Leu Ala Arg Leu Tyr Tyr Lys Lys

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Ser Lys Arg Ser Lys Glu Met Ala Lys Lys

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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

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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

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<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

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<211> 24

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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

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<211> 24

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1 5 10 15

Ala Arg Leu Tyr Tyr Lys Lys Lys

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1 5 10 15

Arg Leu Tyr Tyr Lys Thr Lys Lys

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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

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1 5 10 15

Ser Lys Arg Ser Lys Glu Lys Lys

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

1 5 10 15

Glu Met Ala

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1 5 10 15

Met Ala

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

1 5 10 15

Ala

<210> 2312

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

1 5 10 15

Glu Met

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

1 5 10 15

Glu

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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

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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

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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

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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

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

1 5 10 15

Lys Glu Met Ala

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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

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Ser Lys Glu Met Ala

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 Ser Lys Glu Met Ala
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 Phe Pro Leu Ala Val Gln Leu His Val Ser Lys Arg Ser Lys Glu Met
 1 5 10 15
 Ala Leu Ala

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Ser Gly Tyr Ala Ser Phe Pro

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Ala Arg Leu

<210> 2327

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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

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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

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1 5 10 15

Ser Lys Glu Met Ala

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Ser Lys Glu Met Ala

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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

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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

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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

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1 5 10 15

Ser Lys Glu Met Ala

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1 5 10 15

Ser Lys Glu Met Ala

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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

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1 5 10 15

Ser Lys Glu Met Ala

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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

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1 5 10 15

Ser Lys Glu Met Ala

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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

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<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

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 1 5 10 15
 Ser Trp Glu Met Ala
 20

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 1 5 10 15
 Ser Lys Glu Met Ala
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1 5 10 15

Ser Tyr Glu Met Ala

20

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Ser Lys Glu Met Ala

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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

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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

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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

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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

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

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Ser Lys Glu Met Ala

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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

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Ser Lys Glu Met Ala

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Ser Lys Glu Met Ala

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Ser Lys Glu Met Ala

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Ser Lys Glu Met Ala

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Ser Lys Glu Met Ala

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Ser Lys Glu Met Ala

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Ser Lys Glu Met Ala

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Ser Trp Glu Met Ala

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Ser Trp Glu Met Ala

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Ser Trp Glu Met Ala

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Ser Ala Glu Met Ala

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Ser Trp Glu Met Ala

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Ser Trp Glu Met Ala

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Ser Trp Glu Met Ala

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Ser Trp Glu Met Ala

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Ser Trp Glu Met Ala

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Ser Trp Glu Met Ala

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 Ser Trp Glu Met Ala
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1 5 10 15

Ser Trp Glu Met Ala

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Ser Trp Glu Met Ala

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Asp Trp Glu Met Ala

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Ser Asp Glu Met Ala

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Ser Trp Glu Asp Ala

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Ser Trp Glu Met Asp

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Ser Trp Glu Met Ala

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Ser Trp Glu Met Ala

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Ser Trp Glu Met Ala

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

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Ser Trp Glu Met Ala

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Ser Trp Glu Met Ala

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

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Ser Trp Glu Met Ala

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Gly Tyr Ala Ser Phe Pro Trp Phe Val Glu Leu His Val His Lys Arg

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Ser Trp Glu Met Ala

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Gly Tyr Ala Ser Phe Pro Trp Phe Val Gln Glu His Val His Lys Arg

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Ser Trp Glu Met Ala

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Ser Trp Met Met Ala

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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

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<210> 3012

<211> 19

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<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-tridecyl)-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

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<220><221> MOD_RES

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<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

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<213> Artificial Sequence

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<223> N-terminal Biotinyl

<220><221> MOD_RES

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<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

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<210> 3015

<211> 32

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<220><221> MOD_RES

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<223> N-terminal Biotinyl

<220><221> MOD_RES

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<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

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<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

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<220><221> MOD_RES

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<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

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<220><221> MOD_RES

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<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

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<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

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<223> N-terminal Biotinyl

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<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

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<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

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<223> N-terminal Biotinyl

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<222> (1)..(1)

<223> Xaa is (13-Amino-4,7,10-trioxa-tridecyl)-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

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<223> N-terminal Biotinyl

<220><221> MOD_RES

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<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

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<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal Biotinyl

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<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

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<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

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<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

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<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

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<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

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<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

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<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

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<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

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<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

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 <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

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<213> Artificial Sequence
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 <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
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<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

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<220>

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<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

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<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

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<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

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<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

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<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

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<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (26)..(26)

<223> C-terminal amidation

<400

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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

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<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

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<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

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<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

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<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

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<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

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<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

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<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acylation

<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

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<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

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<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

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<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

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<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

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<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

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<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

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<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

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<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

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<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

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<220><221> MOD_RES

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<222> (24)..(24)

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<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

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<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

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<211> 24

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<223> N-terminal acetylation

<220

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<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

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<220><221> MOD_RES

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<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

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<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

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<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

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<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

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<210> 3065

<211> 33

<212> PRT

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<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

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<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

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<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

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<210> 3068

<211> 23

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<223> N-terminal acetylation

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<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

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<210> 3069

<211> 29

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<223> N-terminal acetylation

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<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

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<220><221> MOD_RES

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<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

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<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

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<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

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<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

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<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

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<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

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<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

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<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

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<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

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<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

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<210> 3080

<211> 24

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<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

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<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

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<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

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<220><221> MOD_RES

<222> (24)..(24)

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<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

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<210> 3084

<211> 22

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<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

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<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

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<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

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<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

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<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

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<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

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<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

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<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

<

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<220><221> MOD_RES

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<223> N-terminal Biotinyl

<220><221> MOD_RES

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<223> Xaa is (13-Amino-4,7,10-trioxa-tridecyl)-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

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<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

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<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

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<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

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<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

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<222> (1)..(1)

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<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

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<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

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<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

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<222> (1)..(1)

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<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

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<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

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<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

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<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

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<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221> MOD_RES

<222> (20)..(20)

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<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

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<222

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<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

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<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

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<222> (1)..(1)

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<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

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<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

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<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

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 Val Xaa Gly Tyr Xaa Xaa Arg Leu

1 5 10 15

Xaa Xaa Lys Xaa

<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

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

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<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

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<220><221> MOD_RES

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<220><221> MOD_RES

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<220><221> MOD_RES

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<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

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<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

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<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)

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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

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<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

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<220><221> MOD_RES

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<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

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<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

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<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

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<220><221> MOD_RES

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<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
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 <223> Xaa is Arg or Lys
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 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1 5

<210> 3129
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 <223> Xaa is Ser or Lys
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<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

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<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)

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<222> (6)..(6)

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<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

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<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

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<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

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<220><221> MOD_RES

<222> (1)..(1)

<223> N-terminal acetylation

<220><221>

> MOD_RES

<222> (1)..(1)

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<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

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<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

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<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

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<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

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<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

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<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

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<220><223> Synthetic 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