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(54) 발명의 명칭 부갑상선호르몬(PTH) 수용체 작용물질로서의 단쇄 펩티드

(57) 요약

본 발명은 부갑상선 호르몬(PTH/ PTH-1) 수용체 작용물질로서 주로 작용하는 다음의 화학식 1 의 신규한 단쇄 펩티드(short-chain peptide)를 제공한다. 이러한 단쇄 펩티드는 단백질 분해에 대해 증가된 안정성을 나타낸다. 대부분의 단쇄 펩티드는 (생체 외에서) 24 시간까지 안정적이었고, (생체 외에서) 랫 펩신 및 산성의 위 pH 와 같은 GIT 효소 및 간 마이크로솜에 대비하여 증가된 안정성을 나타냄을 발견하였다. 증가된 대사 안정성 때문에, 부갑상선 기능 저하증, 및 골다공증 및 폐경후 골다공증과 같은 골량 감소에 의해 특징지어지는 질병의 치료/예방 및 골 회복을 촉진시키기 위해 몇몇의 단쇄 펩티드를 비 경구 투여 외에 경구 투여할 수 있다.

화학식 1

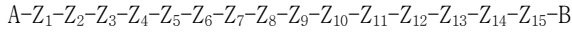
A-Z₁-Z₂-Z₃-Z₄-Z₅-Z₆-Z₇-Z₈-Z₉-Z₁₀-Z₁₁-Z₁₂-Z₁₃-Z₁₄-Z₁₅-B

특허청구의 범위

청구항 1

다음의 화학식 1 의 서열을 갖는 분리된 단쇄 펩티드의 호변이성체(tautomer) 및 용매 화합물을 포함하는, 다음의 화학식 1 의 서열을 갖는 분리된 단쇄 펩티드 :

화학식 1



(여기에서,

A는 $-NH-R_1$ 또는 $R_3-CO-NH-$ 기를 나타내고,

여기에서,

R_1 은 수소, 비오틴, 선형 또는 가지형 (C_{1-18}) 알킬 사슬, 또는 피로글루탐산(Pyr), Pro(P), 알파-메틸-프롤린(α Me-P), Val(V), N-메틸-발린(NMe-V), 알파-메틸-발린(α Me-V), Lys(비오틴), Lys(알킬), Lys(아세틸)과 같은 아미노산을 나타내고 ;

R_3 은 선형 또는 가지형(C_{1-18}) 알킬 사슬, (C_{1-6})알콕시, (C_3-C_6)시클로알킬, 아릴, 헤테로아릴 또는 아릴알킬기 중에서 선택한 것이고 ;

B는 $-COOR_2$, $-CONHR_2$ 또는 CH_2OR_2 을 나타내고,

여기에서,

R_2 는 H 또는 Val(V), 알파-메틸-발린(α Me-V), Lys(비오틴), Lys(알킬) 및 Lys(아세틸) 중에서 선택한 아미노산을 나타내고 :

각각의 Z_1 , Z_3 및 Z_{12} 는 동일하거나 상이할 수 있으며, 독립적으로 Ser(S), 알파-메틸-세린(α Me-S), Val(V), 알파-메틸-발린(α Me-V), Pro(P), 알파-메틸-프롤린(α Me-P), Gly(G), Ala(A), α -아미노-이소부티르산(Aib), 1-아미노 시클로프로판 카르복실산(AC_3C), 1-아미노-시클로펜탄카르복실산(AC_5C), 1-아미노-시클로헥산카르복실산(AC_6C) 중에서 선택한 자연적으로 발생하는 아미노산 또는 자연적으로 발생하지 않은 아미노산을 나타내고 :

Z_2 는 Val(V) 또는 α Me-Val(α Me-V)을 나타내고 :

각각의 Z_4 , Z_6 및 Z_{10} 은 동일하거나 상이할 수 있으며, 독립적으로 Glu(E), 호모글루탐산(Homoglutamic acid : HoGlu), 2-아미노-4-시아노부탄산(Abu(CN)), Asp(D), Asn(N), Gln(Q), Aib 중에서 선택한 자연적으로 발생하는 아미노산 또는 자연적으로 발생하지 않는 아미노산을 나타내고,

각각의 Z_5 , Z_7 및 Z_9 은 동일하거나 상이할 수 있으며, 독립적으로 Leu(L), Ile(I), Nle(노르류신), Nva(노르발린), HoLeu(호모류신: Homoleucine), Abu(CN), His(H), Phe(F), 알파-메틸-페닐알라닌($-\alpha$ Me-Phe-), 알파-메틸-2-플루오로페닐알라닌($-\alpha$ Me-2F-Phe-) 또는 알파-메틸-2,6-디플루오로페닐알라닌($-\alpha$ Me-2,6-F-Phe-) 또는 2-플루오로페닐알라닌($-2F-Phe-$)기 중에서 선택한 자연적으로 발생하는 아미노산 또는 자연적으로 발생하지 않는 아미노산을 나타내고 ;

Z_8 은 Met, N-메틸-Met((NMe)M), 알파-메틸-Met(α Me-M), 알파-메틸-발린(α Me-V), Leu, Nle, N-메틸-Nle((NMe)Nle), 알파-메틸-노르류신(α Me-Nle), Nva, HoLeu, 에티오닌(EtMet), 셀레노메티오닌(SMet), Val 중에서 선택한 자연적으로 발생하는 아미노산 또는 자연적으로 발생하지 않는 아미노산을 나타내고 ;

Z_{11} 및 Z_{13} 은 동일하거나 상이할 수 있으며, 독립적으로 Aib, Pro(P), α Me-Pro, 리신(K), 리신-비오틴(K(비오틴)), 리신(니트로)[K(NO_2)], 아르기닌(R), 아르기닌(니트로)[Arg(NO_2)], 호모아르기닌(Homoarginine : Har), 오르니틴(Orn), 오르니틴(니트로)[Orn(NO_2)], 시트룰린(Cit), 호모시트룰린(Homocitrulline : HoCit), Phe(F),

알파-메틸-페닐알라닌(α -Me-Phe-), 알파-메틸-2-플루오로페닐알라닌(α -Me-2F-Phe-) 또는 알파-메틸-2,6-디플루로페닐알라닌(α -Me-2,6-F-Phe-) 또는 2-플루오로페닐알라닌(-2F-Phe-) 중에서 선택한 자연적으로 발생하는 아미노산 또는 자연적으로 발생하지 않는 아미노산을 나타내고 ;

Z_{14} 는 2'-에틸-4'-메톡시-비페닐알라닌(Bip(OMe)), α -메틸화 Bip(OMe)[α -Me-Bip(OMe)], α -Me-Trp, 알파-메틸-페닐알라닌(α -Me-Phe-), 알파-메틸-2-플루오로페닐알라닌(α -Me-2F-Phe-), 알파-메틸-2,6-디플루로페닐알라닌(α -Me-2,6-F-Phe-) 또는 2-플루오로페닐알라닌(-2F-Phe-)기 중에서 선택한 자연적으로 발생하는 아미노산 또는 자연적으로 발생하지 않는 아미노산을 나타내며 ;

Z_{15} 는 존재하거나 존재하지 않으며, 존재할 때 Z_{15} 는 2-아미노-5-페닐발레르산(APPA) 또는 2-아미노-2-메틸-5-페닐발레르산(α -Me-APPA) 중에서 선택한 자연적으로 발생하는 아미노산 또는 자연적으로 발생하지 않는 아미노산을 나타낸다).

청구항 2

제 1 항에 있어서, A는 $-NH-R_1$ 또는 $R_3-CO-NH$ -기를 나타내고, R_1 은 수소, 비오틴 또는 피코글루탐산(Pyr), Pro(P) 및 Val(V) 중에서 선택한 아미노산을 나타냄을 특징으로 하는 화합물.

청구항 3

제 1 항에 있어서, R_3 은 추가적으로 치환된 선형 또는 가지형(C_{1-18}) 알킬 사슬 중에서 선택한 것임을 특징으로 하는 화합물.

청구항 4

제 1 항에 있어서, B는 $-COOR_2$, $-CONHR_2$ 를 나타내며, R_2 는 H 또는 Val(V), 알파-메틸-발린(α -Me-V) 또는 Lys(비오틴) 중에서 선택한 아미노산을 나타냄을 특징으로 하는 화합물.

청구항 5

제 1 항에 있어서, 각각의 Z_1 , Z_3 및 Z_{12} 은 동일하거나 상이할 수 있으며, 독립적으로 Ala(A), α -아미노-이소부티르산(Aib), 1-아미노 시클로프로판 카르복실산(AC_3C), 1-아미노-시클로펜탄카르복실산(AC_5C), 1-아미노-시클로헥산카르복실산(AC_6C) 중에서 선택한 자연적으로 발생하는 아미노산 또는 자연적으로 발생하지 않는 아미노산을 나타냄을 특징으로 하는 화합물.

청구항 6

제 1 항에 있어서, Z_2 는 Val(V)를 나타냄을 특징으로 하는 화합물.

청구항 7

제 1 항에 있어서, 각각의 Z_4 , Z_6 및 Z_{10} 은 동일하거나 상이할 수 있으며, 독립적으로 Glu(E), Gln(Q) 또는 Aib 중에서 선택한 자연적으로 발생하는 아미노산 또는 자연적으로 발생하지 않는 아미노산을 나타냄을 특징으로 하는 화합물.

청구항 8

제 1 항에 있어서, 각각의 Z_5 , Z_7 및 Z_9 은 동일하거나 상이할 수 있으며, 독립적으로 Leu(L), Ile(I), Nle, HoLeu(호모류신), His(H), 알파-메틸-2-플루오로페닐알라닌(α -Me-2F-Phe-) 또는 알파-메틸-2,6-디플루로페닐알라닌(α -Me-2,6-F-Phe-) 중에서 선택한 자연적으로 발생하는 아미노산 또는 자연적으로 발생하지 않는 아미노산을 나타냄을 특징으로 하는 화합물.

청구항 9

제 1 항에 있어서, Z_8 은 Met, 알파-메틸-Met(α -Me-M), Nle, N-메틸-Nle((NMe)Nle) 중에서 선택한 자연적으로

발생하는 아미노산 또는 자연적으로 발생하지 않는 아미노산을 나타냄을 특징으로 하는 화합물.

청구항 10

제 1 항에 있어서, 각각의 Z_{11} 및 Z_{13} 은 동일하거나 상이할 수 있으며, 독립적으로 Aib, α -Me-Pro, 리신(K), 리신-비오틴(K(비오틴)), K(NO₂), 아르기닌(R), Arg(NO₂), 호모아르기닌(Har), 오르니틴(Orn), Orn(NO₂), 시트룰린(Cit), 호모시트룰린(HoCit), 알파-메틸-2-플루오로페닐알라닌(- α -Me-2F-Phe-) 또는 알파-메틸-2,6-디플루로페닐알라닌(- α -Me-2,6-F-Phe-) 중에서 선택한 자연적으로 발생하는 아미노산 또는 자연적으로 발생하지 않는 아미노산을 나타냄을 특징으로 하는 화합물.

청구항 11

제 1 항에 있어서, Z_{14} 는 2'-에틸-4'-메톡시-비페닐알라닌(Bip(OMe)), α -메틸화 Bip(OMe)[α -Me-Bip(OMe)], 알파-메틸-2-플루오로페닐알라닌(- α -Me-2F-Phe-) 또는 알파-메틸-2,6-디플루로페닐알라닌(- α -Me-2,6-F-Phe-) 중에서 선택한 자연적으로 발생하는 아미노산 또는 자연적으로 발생하지 않는 아미노산을 나타냄을 특징으로 하는 화합물.

청구항 12

제 1 항에 있어서, Z_{15} 는 2-아미노-5-페닐발레르산(APPA) 또는 2-아미노-2-메틸-5-페닐발레르산(α -Me-APPA) 중에서 선택한 자연적으로 발생하는 아미노산 또는 자연적으로 발생하지 않는 아미노산을 나타냄을 특징으로 하는 화합물.

청구항 13

제 1 항에 있어서, 아릴기는 페닐, 나프틸, 인다닐, 플루오레닐 또는 비페닐기 중에서 선택한 것임을 특징으로 하는 화합물.

청구항 14

제 1 항에 있어서, 헤테로아릴기는 피리딜, 티에닐, 푸릴, 이미다졸릴, 벤조푸라닐기 중에서 선택한 것임을 특징으로 하는 화합물.

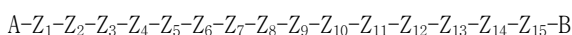
청구항 15

삭제

청구항 16

제 1 항에 있어서, 다음 화학식 1 의 화합물 :

화학식 1



(여기에서,

A 는 -NH-R₁ 또는 R₃-CO-NH- 기를 나타내고,

여기에서,

R₁ 은 수소, 비오틴 또는 피로글루탐산(Pyr), Pro(P), Val(V) 중에서 선택한 아미노산을 나타내고,

R₃ 은 선형 또는 가지형 (C₁₋₁₈) 알킬 사슬 중에서 선택한 것이고,

B 는 -COOR₂, -CONHR₂ 를 나타내고,

여기에서, R₂ 는 제 1 항에 나타낸 바와 같고,

각각의 Z_1 , Z_3 및 Z_{12} 는 동일하거나 상이할 수 있으며, 독립적으로 Ala(A), α -아미노-이소부티르산(Aib), 1-아

미노 시클로프로판 카르복실산(AC_3C), 1-아미노-시클로펜탄카르복실산(AC_5C), 1-아미노-시클로헥산카르복실산(AC_6C) 중에서 선택한 자연적으로 발생하는 아미노산 또는 자연적으로 발생하지 않는 아미노산을 나타내고 ;

Z_2 는 Val(V)를 나타내고 ;

각각의 Z_4 , Z_6 및 Z_{10} 는 동일하거나 상이할 수 있으며, 독립적으로 Glu(E), Gln(Q), Aib 중에서 선택한 자연적으로 발생하는 아미노산 또는 자연적으로 발생하지 않는 아미노산을 나타내고 ;

Z_5 , Z_7 및 Z_9 는 동일하거나 상이할 수 있으며, 독립적으로 Leu(L), Ile(I), Nle, HoLeu(호모류신), His(H), 알파-메틸-2-플루오로페닐알라닌(- α -Me-2F-Phe-), 알파-메틸-2,6-디플루로페닐알라닌(- α -Me-2,6-F-Phe-) 중에서 선택한 자연적으로 발생하는 아미노산 또는 자연적으로 발생하지 않는 아미노산을 나타내고 ;

Z_8 은 Met, 알파-메틸-Met(α Me-M), Nle, N-메틸-Nle((NMe)Nle) 중에서 선택한 자연적으로 발생하는 아미노산 또는 자연적으로 발생하지 않는 아미노산을 나타내고 ;

Z_{11} 및 Z_{13} 는 동일하거나 상이할 수 있으며, 독립적으로 Aib, α Me-Pro, 리신(K), 리신-비오틴(K(비오틴)), K(NO_2), 아르기닌(R), Arg(NO_2), 호모아르기닌(Har), 오르니틴(Orn), Orn(NO_2), 시트룰린(Cit), 호모시트룰린(HoCit), 알파-메틸-2-플루오로페닐알라닌(- α -Me-2F-Phe-), 알파-메틸-2,6-디플루로페닐알라닌(- α -Me-2,6-F-Phe-) 중에서 선택한 자연적으로 발생하는 아미노산 또는 자연적으로 발생하지 않는 아미노산을 나타내고 ;

Z_{14} 는 2'-에틸-4'-메톡시-비페닐알라닌(Bip(OMe)), α -메틸화 Bip(OMe)[α Me-Bip(OMe)], 알파-메틸-2-플루오로페닐알라닌(- α -Me-2F-Phe-), 알파-메틸-2,6-디플루로페닐알라닌(- α -Me-2,6-F-Phe-) 중에서 선택한 자연적으로 발생하는 아미노산 또는 자연적으로 발생하지 않는 아미노산을 나타내며 ;

Z_{15} 는 존재할 때 2-아미노-5-페닐발레르산(APPA) 또는 2-아미노-2-메틸-5-페닐발레르산(α -Me-APPA) 중에서 선택한 자연적으로 발생하는 아미노산 또는 자연적으로 발생하지 않는 아미노산을 나타낸다).

청구항 17

다음 중에서 선택한 화학식 I의 화합물 ;

Aib-V-Aib-EIQLMHQ-Har-AK-(α -Me-Phe);

Aib-V-Aib-EIQL-Nle-HQ-Har-AK-(α -Me-Phe);

Aib-V-Aib-EIQLMHQ-Har-(α Me-Pro)-K-(α -Me-Phe);

Aib-V-Aib-EIQL-Nle-HQ-Har-(α Me-Pro)-K-(α -Me-Phe);

Aib-V-Aib-EIQLMHQ-Har-Aib-K-(α -Me-Phe);

Aib-V-Aib-EIQL-Nle-HQ-Har-Aib-K-(α -Me-Phe);

(AC_3C)-V-Aib-EIQL-Nle-HQ-Har-AK-(α -Me-Phe);

(AC_3C)-V-Aib-EIQLMHQ-Har-(α Me-Pro)-K-(α -Me-Phe);

(AC_3C)-V-Aib-EIQL-Nle-HQ-Har-(α Me-Pro)-K-(α -Me-Phe);

(AC_3C)-V-Aib-EIQLMHQ-Har-Aib-K-(α -Me-Phe);

(AC_3C)-V-Aib-EIQL-Nle-HQ-Har-Aib-K-(α -Me-Phe);

Aib-V-(AC_5C)-EIQLMHQ-Har-Aib-K-(α -Me-Phe);

Aib-V-(AC_5C)-EIQL-Nle-HQ-Har-Aib-K-(α -Me-Phe);

(AC_5C)-V-(AC_5C)-EIQLMHQ-Har-(α Me-Pro)-K-(α -Me-Phe);

$(AC_5C)-V-(AC_5C)-EIQL-Nle-HQ-Har-(\alpha-Me-Pro)-K-(\alpha-Me-Phe);$
 $(AC_5C)-V-Aib-EIQLMHQ-Har-Aib-K-(\alpha-Me-Phe);$
 $(AC_5C)-V-Aib-EIQL-Nle-HQ-Har-Aib-K-(\alpha-Me-Phe);$
 $Aib-V-(AC_6C)-EIQLMHQ-Har-Aib-K-(\alpha-Me-Phe);$
 $Aib-V-(AC_6C)-EIQL-Nle-HQ-Har-Aib-K-(\alpha-Me-Phe);$
 $Aib-V-Aib-EIQ-(\alpha-Me-2F-Phe)-Nle-HQ-Har-AK-(\alpha-Me-Phe);$
 $Aib-V-Aib-EIQ-(\alpha-Me-2F-Phe)-Nle-HQ-Har-(\alpha-Me-Pro)-K-(\alpha-Me-Phe);$
 $Aib-V-Aib-EIQ-(\alpha-Me-2F-Phe)-Nle-HQ-Har-Aib-K-(\alpha-Me-Phe);$
 $(AC_3C)-V-Aib-EIQ-(\alpha-Me-2F-Phe)-Nle-HQ-Har-AK-(\alpha-Me-Phe);$
 $(AC_3C)-V-Aib-EIQ-(\alpha-Me-2F-Phe)-Nle-HQ-Har-(\alpha-Me-Pro)-K-(\alpha-Me-Phe);$
 $(AC_3C)-V-Aib-EIQ-(\alpha-Me-2F-Phe)-Nle-HQ-Har-Aib-K-(\alpha-Me-Phe);$
 $Aib-V-(AC_5C)-EIQ-(\alpha-Me-2F-Phe)-Nle-HQ-Har-AK-(\alpha-Me-Phe);$
 $Aib-V-(AC_5C)-EIQ-(\alpha-Me-2F-Phe)-Nle-HQ-Har-(\alpha-Me-Pro)-K-(\alpha-Me-Phe);$
 $Aib-V-(AC_5C)-EIQ-(\alpha-Me-2F-Phe)-Nle-HQ-Har-Aib-K-(\alpha-Me-Phe);$
 $(AC_5C)-V-(AC_5C)-EIQ-(\alpha-Me-2F-Phe)-Nle-HQ-Har-AK-(\alpha-Me-Phe);$
 $(AC_5C)-V-(AC_5C)-EIQ-(\alpha-Me-2F-Phe)-Nle-HQ-Har-(\alpha-Me-Pro)-K-(\alpha-Me-Phe);$
 $(AC_5C)-V-(AC_5C)-EIQ-(\alpha-Me-2F-Phe)-Nle-HQ-Har-Aib-K-(\alpha-Me-Phe);$
 $Aib-V-Aib-EIQ-(\alpha-Me-2,6-F-Phe)-Nle-HQ-Har-AK-(\alpha-Me-Phe);$
 $Aib-V-Aib-EIQ-(\alpha-Me-2,6-F-Phe)-Nle-HQ-Har-(\alpha-Me-Pro)-K-(\alpha-Me-Phe);$
 $Aib-V-Aib-EIQ-(\alpha-Me-2,6-F-Phe)-Nle-HQ-Har-Aib-K-(\alpha-Me-Phe);$
 $(AC_3C)-V-Aib-EIQ-(\alpha-Me-2,6-F-Phe)-Nle-HQ-Har-AK-(\alpha-Me-Phe);$
 $(AC_3C)-V-Aib-EIQ-(\alpha-Me-2,6-F-Phe)-Nle-HQ-Har-(\alpha-Me-Pro)-K-(\alpha-Me-Phe);$
 $(AC_3C)-V-Aib-EIQ-(\alpha-Me-2,6-F-Phe)-Nle-HQ-Har-Aib-K-(\alpha-Me-Phe);$
 $Aib-V-(AC_5C)-EIQ-(\alpha-Me-2,6-F-Phe)-Nle-HQ-Har-AK-(\alpha-Me-Phe);$
 $Aib-V-(AC_5C)-EIQ-(\alpha-Me-2,6-F-Phe)-Nle-HQ-Har-(\alpha-Me-Pro)-K-(\alpha-Me-Phe);$
 $Aib-V-(AC_5C)-EIQ-(\alpha-Me-2,6-F-Phe)-Nle-HQ-Har-Aib-K-(\alpha-Me-Phe);$
 $(AC_5C)-V-(AC_5C)-EIQ-(\alpha-Me-2,6-F-Phe)-Nle-HQ-Har-AK-(\alpha-Me-Phe);$
 $(AC_5C)-V-(AC_5C)-EIQ-(\alpha-Me-2,6-F-Phe)-Nle-HQ-Har-(\alpha-Me-Pro)-K-(\alpha-Me-Phe);$
 $(AC_5C)-V-(AC_5C)-EIQ-(\alpha-Me-2,6-F-Phe)-Nle-HQ-Har-Aib-K-(\alpha-Me-Phe);$
 $(AC_5C)-V-(AC_5C)-EIQ-(\alpha-Me-2,6-F-Phe)-Nle-H-(Abu(CN))-Har-AK-(\alpha-Me-Phe);$
 $(AC_5C)-V-Aib-EIQ-(\alpha-Me-2,6-F-Phe)-Nle-HQ-Har-AK-(\alpha-Me-Phe);$

$(AC_5C)-V-Aib-EIQ-(\alpha\text{-Me-2,6-F-Phe})-Nle-HQ-Har-(\alpha\text{Me-Pro})-K-(\alpha\text{-Me-Phe});$
 $(AC_5C)-V-Aib-EIQ-(\alpha\text{-Me-2,6-F-Phe})-Nle-HQ-Har-Aib-K-(\alpha\text{-Me-Phe});$
 $(AC_5C)-V-(AC_5C)-EIQ-(\alpha\text{-Me-2,6-F-Phe})-M-HQ-Har-AK-(\alpha\text{-Me-Phe});$
 $(AC_5C)-V-(AC_5C)-EIQ-(\alpha\text{-Me-2,6-F-Phe})-M-HQ-Har-(\alpha\text{Me-Pro})-K-(\alpha\text{-Me-Phe});$
 $(AC_5C)-V-(AC_5C)-EIQ-(\alpha\text{-Me-2,6-F-Phe})-M-HQ-Har-Aib-K-(\alpha\text{-Me-Phe});$
 $Aib-V-Aib-EIQ-(\alpha\text{-Me-2F-Phe})-Nle-HQ-Har-AK-(\alpha\text{-Me-2F-Phe});$
 $Aib-V-Aib-EIQ-(\alpha\text{-Me-2F-Phe})-Nle-HQ-Har-(\alpha\text{Me-Pro})-K-(\alpha\text{-Me-2F-Phe});$
 $Aib-V-Aib-EIQ-(\alpha\text{-Me-2F-Phe})-Nle-HQ-Har-Aib-K-(\alpha\text{-Me-2F-Phe});$
 $(AC_3C)-V-Aib-EIQ-(\alpha\text{-Me-2F-Phe})-Nle-HQ-Har-AK-(\alpha\text{-Me-2F-Phe});$
 $(AC_3C)-V-Aib-EIQ-(\alpha\text{-Me-2F-Phe})-Nle-HQ-Har-(\alpha\text{Me-Pro})-K-(\alpha\text{-Me-2F-Phe});$
 $(AC_3C)-V-Aib-EIQ-(\alpha\text{-Me-2F-Phe})-Nle-HQ-Har-Aib-K-(\alpha\text{-Me-2F-Phe});$
 $Aib-V-(AC_5C)-EIQ-(\alpha\text{-Me-2F-Phe})-Nle-HQ-Har-AK-(\alpha\text{-Me-2F-Phe});$
 $Aib-V-(AC_5C)-EIQ-(\alpha\text{-Me-2F-Phe})-Nle-HQ-Har-(\alpha\text{Me-Pro})-K-(\alpha\text{-Me-2F-Phe});$
 $Aib-V-(AC_5C)-EIQ-(\alpha\text{-Me-2F-Phe})-Nle-HQ-Har-Aib-K-(\alpha\text{-Me-2F-Phe});$
 $(AC_5C)-V-(AC_5C)-EIQ-(\alpha\text{-Me-2F-Phe})-Nle-HQ-Har-AK-(\alpha\text{-Me-2F-Phe});$
 $(AC_5C)-V-(AC_5C)-EIQ-(\alpha\text{-Me-2F-Phe})-Nle-HQ-Har-(\alpha\text{Me-Pro})-K-(\alpha\text{-Me-2F-Phe});$
 $(AC_5C)-V-(AC_5C)-EIQ-(\alpha\text{-Me-2F-Phe})-Nle-HQ-Har-Aib-K-(\alpha\text{-Me-2F-Phe});$
 $(AC_5C)-V-Aib-EIQ-(\alpha\text{-Me-2F-Phe})-Nle-HQ-Har-AK-(\alpha\text{-Me-2F-Phe});$
 $(AC_5C)-V-Aib-EIQ-(\alpha\text{-Me-2F-Phe})-Nle-HQ-Har-(\alpha\text{Me-Pro})-K-(\alpha\text{-Me-2F-Phe});$
 $(AC_5C)-V-Aib-EIQ-(\alpha\text{-Me-2F-Phe})-Nle-HQ-Har-Aib-K-(\alpha\text{-Me-2F-Phe});$
 $Aib-V-Aib-EIQ-(\alpha\text{-Me-2,6-F-Phe})-Nle-HQ-Har-A-K(\text{비오틴})-(\alpha\text{-Me-2F-Phe});$
 $Aib-V-Aib-EIQ-(\alpha\text{-Me-2,6-F-Phe})-Nle-HQ-Har-AK-(\alpha\text{-Me-2F-Phe});$
 $Aib-V-Aib-EIQ-(\alpha\text{-Me-2,6-F-Phe})-Nle-HQ-Har-(\alpha\text{Me-Pro})-K-(\alpha\text{-Me-2F-Phe});$
 $Aib-V-Aib-EIQ-(\alpha\text{-Me-2,6-F-Phe})-Nle-HQ-Har-Aib-K-(\alpha\text{-Me-2F-Phe});$
 $(AC_3C)-V-Aib-EIQ-(\alpha\text{-Me-2,6-F-Phe})-Nle-HQ-Har-AK-(\alpha\text{-Me-2F-Phe});$
 $(AC_3C)-V-Aib-EIQ-(\alpha\text{-Me-2,6-F-Phe})-Nle-HQ-Har-(\alpha\text{Me-Pro})-K-(\alpha\text{-Me-2F-Phe});$
 $(AC_3C)-V-Aib-EIQ-(\alpha\text{-Me-2,6-F-Phe})-Nle-HQ-Har-Aib-K-(\alpha\text{-Me-2F-Phe});$
 $Aib-V-(AC_5C)-EIQ-(\alpha\text{-Me-2,6-F-Phe})-Nle-HQ-Har-AK-(\alpha\text{-Me-2F-Phe});$
 $Aib-V-(AC_5C)-EIQ-(\alpha\text{-Me-2,6-F-Phe})-Nle-HQ-Har-(\alpha\text{Me-Pro})-K-(\alpha\text{-Me-2F-Phe});$
 $Aib-V-(AC_5C)-EIQ-(\alpha\text{-Me-2,6-F-Phe})-Nle-HQ-Har-Aib-K-(\alpha\text{-Me-2F-Phe});$
 $(AC_5C)-V-(AC_5C)-EIQ-(\alpha\text{-Me-2,6-F-Phe})-Nle-HQ-Har-AK-(\alpha\text{-Me-2F-Phe});$

(AC₅C)-V-(AC₅C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-(α -Me-Pro)-K-(α -Me-2F-Phe);

(AC₅C)-V-(AC₅C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-K-(α -Me-2F-Phe);

(AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-AK-(α -Me-2F-Phe);

(AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-(α -Me-Pro)-K-(α -Me-2F-Phe);

(AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-K-(α -Me-2F-Phe);

(AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-H-(Abu(CN))-Har-AK-(α -Me-2F-Phe);

Aib-V-(AC₆C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-AK-(α -Me-2F-Phe);

Aib-V-(AC₆C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-(α -Me-Pro)-K-(α -Me-2F-Phe);

Aib-V-(AC₆C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-K-(α -Me-2F-Phe);

Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-AK-(α -Me-2,6-F-Phe);

Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-(α -Me-Pro)-K-(α -Me-2,6-F-Phe);

Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-Aib-K-(α -Me-2,6-F-Phe);

(AC₃C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-AK-(α -Me-2,6-F-Phe);

(AC₃C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-(α -Me-Pro)-K-(α -Me-2,6-F-Phe);

(AC₃C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-Aib-K-(α -Me-2,6-F-Phe);

Aib-V-(AC₅C)-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-AK-(α -Me-2,6-F-Phe);

Aib-V-(AC₅C)-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-(α -Me-Pro)-K-(α -Me-2,6-F-Phe);

Aib-V-(AC₅C)-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-Aib-K-(α -Me-2,6-F-Phe);

(AC₅C)-V-(AC₅C)-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-AK-(α -Me-2,6-F-Phe);

(AC₅C)-V-(AC₅C)-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-(α -Me-Pro)-K-(α -Me-2,6-F-Phe);

(AC₅C)-V-(AC₅C)-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-Aib-K-(α -Me-2,6-F-Phe);

(AC₅C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-AK-(α -Me-2,6-F-Phe);

(AC₅C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-(α -Me-Pro)-K-(α -Me-2,6-F-Phe);

(AC₅C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-Aib-K-(α -Me-2,6-F-Phe);

Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-A-K(비오틴)-(α -Me-2,6-F-Phe);

Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-AK-(α -Me-2,6-F-Phe);

Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-(α -Me-Pro)-K-(α -Me-2,6-F-Phe);

Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-K-(α -Me-2,6-F-Phe);

(AC₃C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-AK-(α -Me-2,6-F-Phe);

(AC₃C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-(α -Me-Pro)-K-(α -Me-2,6-F-Phe);

(AC₃C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-K-(α -Me-2,6-F-Phe);

Aib-V-(AC₅C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-AK-(α -Me-2,6-F-Phe);
 Aib-V-(AC₅C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-(α -Me-Pro)-K-(α -Me-2,6-F-Phe);
 Aib-V-(AC₅C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-K-(α -Me-2,6-F-Phe);
 (AC₅C)-V-(AC₅C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-AK-(α -Me-2,6-F-Phe);
 (AC₅C)-V-(AC₅C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-(α -Me-Pro)-K-(α -Me-2,6-F-Phe);
 (AC₅C)-V-(AC₅C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-K-(α -Me-2,6-F-Phe);
 (AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-AK-(α -Me-2,6-F-Phe);
 (AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-(α -Me-Pro)-K-(α -Me-2,6-F-Phe);
 (AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-K-(α -Me-2,6-F-Phe);
 Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-A-Cit-(α -Me-2F-Phe);
 Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-Aib-Cit-(α -Me-2F-Phe);
 (AC₃C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-A-Cit-(α -Me-2F-Phe);
 (AC₃C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-Aib-Cit-(α -Me-2F-Phe);
 Aib-V-(AC₅C)-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-A-Cit-(α -Me-2F-Phe);
 Aib-V-(AC₅C)-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-Aib-Cit-(α -Me-2F-Phe);
 (AC₅C)-V-(AC₅C)-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-A-Cit-(α -Me-2F-Phe);
 (AC₅C)-V-(AC₅C)-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-Aib-Cit-(α -Me-2F-Phe);
 (AC₅C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-A-Cit-(α -Me-2F-Phe);
 (AC₅C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-Aib-Cit-(α -Me-2F-Phe);
 Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-A-Cit-(α -Me-2F-Phe);
 Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-Cit-(α -Me-2F-Phe);
 (AC₃C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-A-Cit-(α -Me-2F-Phe);
 (AC₃C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-Cit-(α -Me-2F-Phe);
 Aib-V-(AC₅C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-A-Cit-(α -Me-2F-Phe);
 Aib-V-(AC₅C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-Cit-(α -Me-2F-Phe);
 (AC₅C)-V-(AC₅C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-A-Cit-(α -Me-2F-Phe);
 (AC₅C)-V-(AC₅C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-Cit-(α -Me-2F-Phe);
 (AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-A-Cit-(α -Me-2F-Phe);
 (AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-Cit-(α -Me-2F-Phe);
 Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-A-Cit-(α -Me-2,6-F-Phe);
 Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-Aib-Cit-(α -Me-2,6-F-Phe);

$(AC_3C)-V-Aib-EIQ-(\alpha-Me-2F-Phe)-Nle-HQ-Har-A-Cit-(\alpha-Me-2,6-F-Phe);$
 $(AC_3C)-V-Aib-EIQ-(\alpha-Me-2F-Phe)-Nle-HQ-Har-Aib-Cit-(\alpha-Me-2,6-F-Phe);$
 $Aib-V-(AC_5C)-EIQ-(\alpha-Me-2F-Phe)-Nle-HQ-Har-A-Cit-(\alpha-Me-2,6-F-Phe);$
 $Aib-V-(AC_5C)-EIQ-(\alpha-Me-2F-Phe)-Nle-HQ-Har-Aib-Cit-(\alpha-Me-2,6-F-Phe);$
 $(AC_5C)-V-(AC_5C)-EIQ-(\alpha-Me-2F-Phe)-Nle-HQ-Har-A-Cit-(\alpha-Me-2,6-F-Phe);$
 $(AC_5C)-V-(AC_5C)-EIQ-(\alpha-Me-2F-Phe)-Nle-HQ-Har-Aib-Cit-(\alpha-Me-2,6-F-Phe);$
 $(AC_5C)-V-Aib-EIQ-(\alpha-Me-2F-Phe)-Nle-HQ-Har-A-Cit-(\alpha-Me-2,6-F-Phe);$
 $(AC_5C)-V-Aib-EIQ-(\alpha-Me-2F-Phe)-Nle-HQ-Har-Aib-Cit-(\alpha-Me-2,6-F-Phe);$
 $Aib-V-Aib-EIQ-(\alpha-Me-2,6-F-Phe)-Nle-HQ-Har-A-Cit-(\alpha-Me-2,6-F-Phe);$
 $Aib-V-Aib-EIQ-(\alpha-Me-2,6-F-Phe)-Nle-HQ-Har-Aib-Cit-(\alpha-Me-2,6-F-Phe);$
 $(AC_3C)-V-Aib-EIQ-(\alpha-Me-2,6-F-Phe)-Nle-HQ-Har-A-Cit-(\alpha-Me-2,6-F-Phe);$
 $(AC_3C)-V-Aib-EIQ-(\alpha-Me-2,6-F-Phe)-Nle-HQ-Har-Aib-Cit-(\alpha-Me-2,6-F-Phe);$
 $Aib-V-(AC_5C)-EIQ-(\alpha-Me-2,6-F-Phe)-Nle-HQ-Har-A-Cit-(\alpha-Me-2,6-F-Phe);$
 $Aib-V-(AC_5C)-EIQ-(\alpha-Me-2,6-F-Phe)-Nle-HQ-Har-Aib-Cit-(\alpha-Me-2,6-F-Phe);$
 $(AC_5C)-V-(AC_5C)-EIQ-(\alpha-Me-2,6-F-Phe)-Nle-HQ-Har-A-Cit-(\alpha-Me-2,6-F-Phe);$
 $(AC_5C)-V-(AC_5C)-EIQ-(\alpha-Me-2,6-F-Phe)-Nle-HQ-Har-Aib-Cit-(\alpha-Me-2,6-F-Phe);$
 $(AC_5C)-V-Aib-EIQ-(\alpha-Me-2,6-F-Phe)-Nle-HQ-Har-A-Cit-(\alpha-Me-2,6-F-Phe);$
 $(AC_5C)-V-Aib-EIQ-(\alpha-Me-2,6-F-Phe)-Nle-HQ-Har-Aib-Cit-(\alpha-Me-2,6-F-Phe);$
 $Aib-V-Aib-EIQ-(\alpha-Me-2F-Phe)-Nle-HQ-Har-A-Aib-(\alpha-Me-2F-Phe);$
 $Aib-V-Aib-EIQ-(\alpha-Me-2F-Phe)-Nle-HQ-Har-Aib-Aib-(\alpha-Me-2F-Phe);$
 $(AC_3C)-V-Aib-EIQ-(\alpha-Me-2F-Phe)-Nle-HQ-Har-A-Aib-(\alpha-Me-2F-Phe);$
 $(AC_3C)-V-Aib-EIQ-(\alpha-Me-2F-Phe)-Nle-HQ-Har-Aib-Aib-(\alpha-Me-2F-Phe);$
 $Aib-V-(AC_5C)-EIQ-(\alpha-Me-2F-Phe)-Nle-HQ-Har-A-Aib-(\alpha-Me-2F-Phe);$
 $Aib-V-(AC_5C)-EIQ-(\alpha-Me-2F-Phe)-Nle-HQ-Har-Aib-Aib-(\alpha-Me-2F-Phe);$
 $(AC_5C)-V-(AC_5C)-EIQ-(\alpha-Me-2F-Phe)-Nle-HQ-Har-A-Aib-(\alpha-Me-2F-Phe);$
 $(AC_5C)-V-(AC_5C)-EIQ-(\alpha-Me-2F-Phe)-Nle-HQ-Har-Aib-Aib-(\alpha-Me-2F-Phe);$
 $(AC_5C)-V-Aib-EIQ-(\alpha-Me-2F-Phe)-Nle-HQ-Har-A-Aib-(\alpha-Me-2F-Phe);$
 $(AC_5C)-V-Aib-EIQ-(\alpha-Me-2F-Phe)-Nle-HQ-Har-Aib-Aib-(\alpha-Me-2F-Phe);$
 $Aib-V-Aib-EIQ-(\alpha-Me-2,6-F-Phe)-Nle-HQ-Har-A-Aib-(\alpha-Me-2F-Phe);$
 $Aib-V-Aib-EIQ-(\alpha-Me-2,6-F-Phe)-Nle-HQ-Har-Aib-Aib-(\alpha-Me-2F-Phe);$
 $(AC_3C)-V-Aib-EIQ-(\alpha-Me-2,6-F-Phe)-Nle-HQ-Har-A-Aib-(\alpha-Me-2F-Phe);$

Aib-V-(AC₅C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe);
 (AC₅C)-V-(AC₅C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-A-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe);
 (AC₅C)-V-(AC₅C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe);
 (AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-A-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe);
 (AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe);
 Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-A-Arg(NO₂)-(α -Me-2F-Phe);
 Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-Aib-Arg(NO₂)-(α -Me-2F-Phe);
 (AC₃C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-A-Arg(NO₂)-(α -Me-2F-Phe);
 (AC₃C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-Aib-Arg(NO₂)-(α -Me-2F-Phe);
 Aib-V-(AC₅C)-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-A-Arg(NO₂)-(α -Me-2F-Phe);
 Aib-V-(AC₅C)-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-Aib-Arg(NO₂)-(α -Me-2F-Phe);
 (AC₅C)-V-(AC₅C)-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-A-Arg(NO₂)-(α -Me-2F-Phe);
 (AC₅C)-V-(AC₅C)-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-Aib-Arg(NO₂)-(α -Me-2F-Phe);
 (AC₅C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-A-Arg(NO₂)-(α -Me-2F-Phe);
 (AC₅C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-Aib-Arg(NO₂)-(α -Me-2F-Phe);
 Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-A-Arg(NO₂)-(α -Me-2F-Phe);
 Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-Arg(NO₂)-(α -Me-2F-Phe);
 (AC₃C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-A-Arg(NO₂)-(α -Me-2F-Phe);
 (AC₃C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-Arg(NO₂)-(α -Me-2F-Phe);
 Aib-V-(AC₅C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-A-Arg(NO₂)-(α -Me-2F-Phe);
 Aib-V-(AC₅C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-Arg(NO₂)-(α -Me-2F-Phe);
 (AC₅C)-V-(AC₅C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-A-Arg(NO₂)-(α -Me-2F-Phe);
 (AC₅C)-V-(AC₅C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-Arg(NO₂)-(α -Me-2F-Phe);
 (AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-A-Arg(NO₂)-(α -Me-2F-Phe);
 (AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-Arg(NO₂)-(α -Me-2F-Phe);
 Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-A-Arg(NO₂)-(α -Me-2,6-F-Phe);
 Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-Aib-Arg(NO₂)-(α -Me-2,6-F-Phe);
 (AC₃C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-A-Arg(NO₂)-(α -Me-2,6-F-Phe);
 (AC₃C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-Aib-Arg(NO₂)-(α -Me-2,6-F-Phe);
 Aib-V-(AC₅C)-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-A-Arg(NO₂)-(α -Me-2,6-F-Phe);

Aib-V-(AC₅C)-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-Aib-Arg(NO₂)-(α -Me-2,6-F-Phe);
 (AC₅C)-V-(AC₅C)-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-A-Arg(NO₂)-(α -Me-2,6-F-Phe);
 (AC₅C)-V-(AC₅C)-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-Aib-Arg(NO₂)-(α -Me-2,6-F-Phe);
 (AC₅C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-A-Arg(NO₂)-(α -Me-2,6-F-Phe);
 (AC₅C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-Aib-Arg(NO₂)-(α -Me-2,6-F-Phe);
 Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-A-Arg(NO₂)-(α -Me-2,6-F-Phe);
 Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-Arg(NO₂)-(α -Me-2,6-F-Phe);
 (AC₃C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-A-Arg(NO₂)-(α -Me-2,6-F-Phe);
 (AC₃C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-Arg(NO₂)-(α -Me-2,6-F-Phe);
 Aib-V-(AC₅C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-A-Arg(NO₂)-(α -Me-2,6-F-Phe);
 Aib-V-(AC₅C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-Arg(NO₂)-(α -Me-2,6-F-Phe);
 (AC₅C)-V-(AC₅C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-A-Arg(NO₂)-(α -Me-2,6-F-Phe);
 (AC₅C)-V-(AC₅C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-Arg(NO₂)-(α -Me-2,6-F-Phe);
 (AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-A-Arg(NO₂)-(α -Me-2,6-F-Phe);
 (AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-Arg(NO₂)-(α -Me-2,6-F-Phe);
 Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Orn-A-Cit-(α -Me-2F-Phe);
 Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Orn-Aib-Cit-(α -Me-2F-Phe);
 (AC₅C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Orn-A-Cit-(α -Me-2F-Phe);
 (AC₅C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Orn-Aib-Cit-(α -Me-2F-Phe);
 Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-A-Cit-(α -Me-2F-Phe);
 Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-Aib-Cit-(α -Me-2F-Phe);
 (AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-A-Cit-(α -Me-2F-Phe);
 (AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-Aib-Cit-(α -Me-2F-Phe);
 Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Orn-A-Cit-(α -Me-2,6-F-Phe);
 Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Orn-Aib-Cit-(α -Me-2,6-F-Phe);
 (AC₅C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Orn-A-Cit-(α -Me-2,6-F-Phe);
 (AC₅C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Orn-Aib-Cit-(α -Me-2,6-F-Phe);
 Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-A-Cit-(α -Me-2,6-F-Phe);
 Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-Aib-Cit-(α -Me-2,6-F-Phe);
 (AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-A-Cit-(α -Me-2,6-F-Phe);
 (AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-Aib-Cit-(α -Me-2,6-F-Phe);

Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Orn-A-Aib-(α -Me-2F-Phe);
 Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Orn-Aib-Aib-(α -Me-2F-Phe);
 (AC₅C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Orn-A-Aib-(α -Me-2F-Phe);
 (AC₅C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Orn-Aib-Aib-(α -Me-2F-Phe);
 Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-A-Aib-(α -Me-2F-Phe);
 Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-Aib-Aib-(α -Me-2F-Phe);
 (AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-A-Aib-(α -Me-2F-Phe);
 (AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-Aib-Aib-(α -Me-2F-Phe);
 Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Orn-A-Aib-(α -Me-2,6-F-Phe);
 Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Orn-Aib-Aib-(α -Me-2,6-F-Phe);
 (AC₅C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Orn-A-Aib-(α -Me-2,6-F-Phe);
 (AC₅C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Orn-Aib-Aib-(α -Me-2,6-F-Phe);
 Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-A-Aib-(α -Me-2,6-F-Phe);
 Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-Aib-Aib-(α -Me-2,6-F-Phe);
 (AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-A-Aib-(α -Me-2,6-F-Phe);
 (AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-Aib-Aib-(α -Me-2,6-F-Phe);
 Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Orn-A-(α -Me-2,6-F-Phe)-(α -Me-2F-Phe);
 Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Orn-Aib-(α -Me-2,6-F-Phe)-(α -Me-2F-Phe);
 (AC₅C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Orn-A-(α -Me-2,6-F-Phe)-(α -Me-2F-Phe);
 (AC₅C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Orn-Aib-(α -Me-2,6-F-Phe)-(α -Me-2F-Phe);
 Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-A-(α -Me-2,6-F-Phe)-(α -Me-2F-Phe);
 Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-Aib-(α -Me-2,6-F-Phe)-(α -Me-2F-Phe);
 (AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-A-(α -Me-2,6-F-Phe)-(α -Me-2F-Phe);
 (AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-Aib-(α -Me-2,6-F-Phe)-(α -Me-2F-Phe);
 Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Orn-A-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe);
 Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Orn-Aib-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe);
 (AC₅C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Orn-A-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe);
 (AC₅C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Orn-Aib-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe);
 Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-A-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe);
 Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-Aib-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe);
 (AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-A-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe);
 (AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-Aib-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe);

Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Orn-A-Arg(NO₂)-(α -Me-2F-Phe);
 Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Orn-Aib-Arg(NO₂)-(α -Me-2F-Phe);
 (AC₅C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Orn-A-Arg(NO₂)-(α -Me-2F-Phe);
 (AC₅C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Orn-Aib-Arg(NO₂)-(α -Me-2F-Phe);
 Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-A-Arg(NO₂)-(α -Me-2F-Phe);
 Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-Aib-Arg(NO₂)-(α -Me-2F-Phe);
 (AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-A-Arg(NO₂)-(α -Me-2F-Phe);
 (AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-Aib-Arg(NO₂)-(α -Me-2F-Phe);
 Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Orn-A-Arg(NO₂)-(α -Me-2,6-F-Phe);
 Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Orn-Aib-Arg(NO₂)-(α -Me-2,6-F-Phe);
 (AC₅C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Orn-A-Arg(NO₂)-(α -Me-2,6-F-Phe);
 (AC₅C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Orn-Aib-Arg(NO₂)-(α -Me-2,6-F-Phe);
 Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-A-Arg(NO₂)-(α -Me-2,6-F-Phe);
 Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-Aib-Arg(NO₂)-(α -Me-2,6-F-Phe);
 (AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-A-Arg(NO₂)-(α -Me-2,6-F-Phe);
 (AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-Aib-Arg(NO₂)-(α -Me-2,6-F-Phe);
 Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Cit-A-Cit-(α -Me-2F-Phe);
 Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Cit-Aib-Cit-(α -Me-2F-Phe);
 (AC₅C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Cit-A-Cit-(α -Me-2F-Phe);
 (AC₅C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Cit-Aib-Cit-(α -Me-2F-Phe);
 Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Cit-A-Cit-(α -Me-2F-Phe);
 Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Cit-Aib-Cit-(α -Me-2F-Phe);
 (AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Cit-A-Cit-(α -Me-2F-Phe);
 (AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Cit-Aib-Cit-(α -Me-2F-Phe);
 Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Cit-A-Cit-(α -Me-2,6-F-Phe);
 Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Cit-Aib-Cit-(α -Me-2,6-F-Phe);
 (AC₅C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Cit-A-Cit-(α -Me-2,6-F-Phe);
 (AC₅C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Cit-Aib-Cit-(α -Me-2,6-F-Phe);
 Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Cit-A-Cit-(α -Me-2,6-F-Phe);
 Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Cit-Aib-Cit-(α -Me-2,6-F-Phe);
 (AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Cit-A-Cit-(α -Me-2,6-F-Phe);

(AC₅C)-V-Aib-EIQ-(α-Me-2,6-F-Phe)-Nle-HQ-Cit-Aib-Cit-(α-Me-2,6-F-Phe);

Aib-V-Aib-EIQ-(α-Me-2F-Phe)-Nle-HQ-Cit-A-Aib-(α-Me-2F-Phe);

Aib-V-Aib-EIQ-(α-Me-2F-Phe)-Nle-HQ-Cit-Aib-Aib-(α-Me-2F-Phe);

(AC₅C)-V-Aib-EIQ-(α-Me-2F-Phe)-Nle-HQ-Cit-A-Aib-(α-Me-2F-Phe);

(AC₅C)-V-Aib-EIQ-(α-Me-2F-Phe)-Nle-HQ-Cit-Aib-Aib-(α-Me-2F-Phe);

Aib-V-Aib-EIQ-(α-Me-2,6-F-Phe)-Nle-HQ-Cit-A-Aib-(α-Me-2F-Phe);

Aib-V-Aib-EIQ-(α-Me-2,6-F-Phe)-Nle-HQ-Cit-Aib-Aib-(α-Me-2F-Phe);

(AC₅C)-V-Aib-EIQ-(α-Me-2,6-F-Phe)-Nle-HQ-Cit-A-Aib-(α-Me-2F-Phe);

(AC₅C)-V-Aib-EIQ-(α-Me-2,6-F-Phe)-Nle-HQ-Cit-Aib-Aib-(α-Me-2F-Phe);

Aib-V-Aib-EIQ-(α-Me-2F-Phe)-Nle-HQ-Cit-A-Aib-(α-Me-2,6-F-Phe);

Aib-V-Aib-EIQ-(α-Me-2F-Phe)-Nle-HQ-Cit-Aib-Aib-(α-Me-2,6-F-Phe);

(AC₅C)-V-Aib-EIQ-(α-Me-2F-Phe)-Nle-HQ-Cit-A-Aib-(α-Me-2,6-F-Phe);

(AC₅C)-V-Aib-EIQ-(α-Me-2F-Phe)-Nle-HQ-Cit-Aib-Aib-(α-Me-2,6-F-Phe);

Aib-V-Aib-EIQ-(α-Me-2,6-F-Phe)-Nle-HQ-Cit-A-Aib-(α-Me-2,6-F-Phe);

Aib-V-Aib-EIQ-(α-Me-2,6-F-Phe)-Nle-HQ-Cit-Aib-Aib-(α-Me-2,6-F-Phe);

(AC₅C)-V-Aib-EIQ-(α-Me-2,6-F-Phe)-Nle-HQ-Cit-A-Aib-(α-Me-2,6-F-Phe);

(AC₅C)-V-Aib-EIQ-(α-Me-2,6-F-Phe)-Nle-HQ-Cit-Aib-Aib-(α-Me-2,6-F-Phe);

Aib-V-Aib-EIQ-(α-Me-2F-Phe)-Nle-HQ-Cit-A-(α-Me-2,6-F-Phe)-(α-Me-2F-Phe);

Aib-V-Aib-EIQ-(α-Me-2F-Phe)-Nle-HQ-Cit-Aib-(α-Me-2,6-F-Phe)-(α-Me-2F-Phe);

(AC₅C)-V-Aib-EIQ-(α-Me-2F-Phe)-Nle-HQ-Cit-A-(α-Me-2,6-F-Phe)-(α-Me-2F-Phe);

(AC₅C)-V-Aib-EIQ-(α-Me-2F-Phe)-Nle-HQ-Cit-Aib-(α-Me-2,6-F-Phe)-(α-Me-2F-Phe);

Aib-V-Aib-EIQ-(α-Me-2,6-F-Phe)-Nle-HQ-Cit-A-(α-Me-2,6-F-Phe)-(α-Me-2F-Phe);

Aib-V-Aib-EIQ-(α-Me-2,6-F-Phe)-Nle-HQ-Cit-Aib-(α-Me-2,6-F-Phe)-(α-Me-2F-Phe);

(AC₅C)-V-Aib-EIQ-(α-Me-2,6-F-Phe)-Nle-HQ-Cit-A-(α-Me-2,6-F-Phe)-(α-Me-2F-Phe);

(AC₅C)-V-Aib-EIQ-(α-Me-2,6-F-Phe)-Nle-HQ-Cit-Aib-(α-Me-2,6-F-Phe)-(α-Me-2F-Phe);

Aib-V-Aib-EIQ-(α-Me-2F-Phe)-Nle-HQ-Cit-A-(α-Me-2,6-F-Phe)-(α-Me-2,6-F-Phe);

Aib-V-Aib-EIQ-(α-Me-2F-Phe)-Nle-HQ-Cit-Aib-(α-Me-2,6-F-Phe)-(α-Me-2,6-F-Phe);

(AC₅C)-V-Aib-EIQ-(α-Me-2F-Phe)-Nle-HQ-Cit-A-(α-Me-2,6-F-Phe)-(α-Me-2,6-F-Phe);

(AC₅C)-V-Aib-EIQ-(α-Me-2F-Phe)-Nle-HQ-Cit-Aib-(α-Me-2,6-F-Phe)-(α-Me-2,6-F-Phe);

Aib-V-Aib-EIQ-(α-Me-2,6-F-Phe)-Nle-HQ-Cit-A-(α-Me-2,6-F-Phe)-(α-Me-2,6-F-Phe);

Aib-V-Aib-EIQ-(α-Me-2,6-F-Phe)-Nle-HQ-Cit-Aib-(α-Me-2,6-F-Phe)-(α-Me-2,6-F-Phe);

(AC₅C)-V-Aib-EIQ-(α-Me-2,6-F-Phe)-Nle-HQ-Cit-A-(α-Me-2,6-F-Phe)-(α-Me-2,6-F-Phe);

(AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Cit-Aib-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe);

Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Cit-A-Arg(NO₂)-(α -Me-2F-Phe);

Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Cit-Aib-Arg(NO₂)-(α -Me-2F-Phe);

(AC₅C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Cit-A-Arg(NO₂)-(α -Me-2F-Phe);

(AC₅C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Cit-Aib-Arg(NO₂)-(α -Me-2F-Phe);

Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Cit-A-Arg(NO₂)-(α -Me-2F-Phe);

Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Cit-Aib-Arg(NO₂)-(α -Me-2F-Phe);

(AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Cit-A-Arg(NO₂)-(α -Me-2F-Phe);

(AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Cit-Aib-Arg(NO₂)-(α -Me-2F-Phe);

Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Cit-A-Arg(NO₂)-(α -Me-2,6-F-Phe);

Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Cit-Aib-Arg(NO₂)-(α -Me-2,6-F-Phe);

(AC₅C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Cit-A-Arg(NO₂)-(α -Me-2,6-F-Phe);

(AC₅C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Cit-Aib-Arg(NO₂)-(α -Me-2,6-F-Phe);

Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Cit-A-Arg(NO₂)-(α -Me-2,6-F-Phe);

Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Cit-Aib-Arg(NO₂)-(α -Me-2,6-F-Phe);

(AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Cit-A-Arg(NO₂)-(α -Me-2,6-F-Phe);

(AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Cit-Aib-Arg(NO₂)-(α -Me-2,6-F-Phe);

Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(HoCit)-A-Cit-(α -Me-2F-Phe);

Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(HoCit)-Aib-Cit-(α -Me-2F-Phe);

(AC₅C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(HoCit)-A-Cit-(α -Me-2F-Phe);

(AC₅C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(HoCit)-Aib-Cit-(α -Me-2F-Phe);

Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(HoCit)-A-Cit-(α -Me-2F-Phe);

Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(HoCit)-Aib-Cit-(α -Me-2F-Phe);

(AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(HoCit)-A-Cit-(α -Me-2F-Phe);

(AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(HoCit)-Aib-Cit-(α -Me-2F-Phe);

Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(HoCit)-A-Cit-(α -Me-2,6-F-Phe);

Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(HoCit)-Aib-Cit-(α -Me-2,6-F-Phe);

(AC₅C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(HoCit)-A-Cit-(α -Me-2,6-F-Phe);

(AC₅C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(HoCit)-Aib-Cit-(α -Me-2,6-F-Phe);

Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(HoCit)-A-Cit-(α -Me-2,6-F-Phe);

Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(HoCit)-Aib-Cit-(α -Me-2,6-F-Phe);

$(AC_5C)-V-Aib-EIQ-(\alpha-Me-2,6-F-Phe)-Nle-HQ-(HoCit)-A-Cit-(\alpha-Me-2,6-F-Phe);$
 $(AC_5C)-V-Aib-EIQ-(\alpha-Me-2,6-F-Phe)-Nle-HQ-(HoCit)-Aib-Cit-(\alpha-Me-2,6-F-Phe);$
 $Aib-V-Aib-EIQ-(\alpha-Me-2F-Phe)-Nle-HQ-(HoCit)-A-Aib-(\alpha-Me-2F-Phe);$
 $Aib-V-Aib-EIQ-(\alpha-Me-2F-Phe)-Nle-HQ-(HoCit)-Aib-Aib-(\alpha-Me-2F-Phe);$
 $(AC_5C)-V-Aib-EIQ-(\alpha-Me-2F-Phe)-Nle-HQ-(HoCit)-A-Aib-(\alpha-Me-2F-Phe);$
 $(AC_5C)-V-Aib-EIQ-(\alpha-Me-2F-Phe)-Nle-HQ-(HoCit)-Aib-Aib-(\alpha-Me-2F-Phe);$
 $Aib-V-Aib-EIQ-(\alpha-Me-2,6-F-Phe)-Nle-HQ-(HoCit)-A-Aib-(\alpha-Me-2F-Phe);$
 $Aib-V-Aib-EIQ-(\alpha-Me-2,6-F-Phe)-Nle-HQ-(HoCit)-Aib-Aib-(\alpha-Me-2F-Phe);$
 $(AC_5C)-V-Aib-EIQ-(\alpha-Me-2,6-F-Phe)-Nle-HQ-(HoCit)-A-Aib-(\alpha-Me-2F-Phe);$
 $(AC_5C)-V-Aib-EIQ-(\alpha-Me-2,6-F-Phe)-Nle-HQ-(HoCit)-Aib-Aib-(\alpha-Me-2F-Phe);$
 $Aib-V-Aib-EIQ-(\alpha-Me-2F-Phe)-Nle-HQ-(HoCit)-A-Aib-(\alpha-Me-2,6-F-Phe);$
 $Aib-V-Aib-EIQ-(\alpha-Me-2F-Phe)-Nle-HQ-(HoCit)-Aib-Aib-(\alpha-Me-2,6-F-Phe);$
 $(AC_5C)-V-Aib-EIQ-(\alpha-Me-2F-Phe)-Nle-HQ-(HoCit)-A-Aib-(\alpha-Me-2,6-F-Phe);$
 $(AC_5C)-V-Aib-EIQ-(\alpha-Me-2F-Phe)-Nle-HQ-(HoCit)-Aib-Aib-(\alpha-Me-2,6-F-Phe);$
 $Aib-V-Aib-EIQ-(\alpha-Me-2,6-F-Phe)-Nle-HQ-(HoCit)-A-Aib-(\alpha-Me-2,6-F-Phe);$
 $Aib-V-Aib-EIQ-(\alpha-Me-2,6-F-Phe)-Nle-HQ-(HoCit)-Aib-Aib-(\alpha-Me-2,6-F-Phe);$
 $(AC_5C)-V-Aib-EIQ-(\alpha-Me-2,6-F-Phe)-Nle-HQ-(HoCit)-A-Aib-(\alpha-Me-2,6-F-Phe);$
 $(AC_5C)-V-Aib-EIQ-(\alpha-Me-2,6-F-Phe)-Nle-HQ-(HoCit)-Aib-Aib-(\alpha-Me-2,6-F-Phe);$
 $Aib-V-Aib-EIQ-(\alpha-Me-2F-Phe)-Nle-HQ-(HoCit)-A-(\alpha-Me-2,6-F-Phe)-(\alpha-Me-2F-Phe);$
 $Aib-V-Aib-EIQ-(\alpha-Me-2F-Phe)-Nle-HQ-(HoCit)-Aib-(\alpha-Me-2,6-F-Phe)-(\alpha-Me-2F-Phe);$
 $(AC_5C)-V-Aib-EIQ-(\alpha-Me-2F-Phe)-Nle-HQ-(HoCit)-A-(\alpha-Me-2,6-F-Phe)-(\alpha-Me-2F-Phe);$
 $(AC_5C)-V-Aib-EIQ-(\alpha-Me-2F-Phe)-Nle-HQ-(HoCit)-Aib-(\alpha-Me-2,6-F-Phe)-(\alpha-Me-2F-Phe);$
 $Aib-V-Aib-EIQ-(\alpha-Me-2,6-F-Phe)-Nle-HQ-(HoCit)-A-(\alpha-Me-2,6-F-Phe)-(\alpha-Me-2F-Phe);$
 $Aib-V-Aib-EIQ-(\alpha-Me-2,6-F-Phe)-Nle-HQ-(HoCit)-Aib-(\alpha-Me-2,6-F-Phe)-(\alpha-Me-2F-Phe);$
 $(AC_5C)-V-Aib-EIQ-(\alpha-Me-2,6-F-Phe)-Nle-HQ-(HoCit)-A-(\alpha-Me-2,6-F-Phe)-(\alpha-Me-2F-Phe);$
 $(AC_5C)-V-Aib-EIQ-(\alpha-Me-2,6-F-Phe)-Nle-HQ-(HoCit)-Aib-(\alpha-Me-2,6-F-Phe)-(\alpha-Me-2F-Phe);$
 $Aib-V-Aib-EIQ-(\alpha-Me-2F-Phe)-Nle-HQ-(HoCit)-A-(\alpha-Me-2,6-F-Phe)-(\alpha-Me-2,6-F-Phe);$
 $Aib-V-Aib-EIQ-(\alpha-Me-2F-Phe)-Nle-HQ-(HoCit)-Aib-(\alpha-Me-2,6-F-Phe)-(\alpha-Me-2,6-F-Phe);$
 $(AC_5C)-V-Aib-EIQ-(\alpha-Me-2F-Phe)-Nle-HQ-(HoCit)-A-(\alpha-Me-2,6-F-Phe)-(\alpha-Me-2,6-F-Phe);$
 $(AC_5C)-V-Aib-EIQ-(\alpha-Me-2F-Phe)-Nle-HQ-(HoCit)-Aib-(\alpha-Me-2,6-F-Phe)-(\alpha-Me-2,6-F-Phe);$
 $Aib-V-Aib-EIQ-(\alpha-Me-2,6-F-Phe)-Nle-HQ-(HoCit)-A-(\alpha-Me-2,6-F-Phe)-(\alpha-Me-2,6-F-Phe);$
 $Aib-V-Aib-EIQ-(\alpha-Me-2,6-F-Phe)-Nle-HQ-(HoCit)-Aib-(\alpha-Me-2,6-F-Phe)-(\alpha-Me-2,6-F-Phe);$

(AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(HoCit)-A-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe);

(AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(HoCit)-Aib-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe);

Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(HoCit)-A-Arg(NO₂)-(α -Me-2F-Phe);

Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(HoCit)-Aib-Arg(NO₂)-(α -Me-2F-Phe);

(AC₅C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(HoCit)-A-Arg(NO₂)-(α -Me-2F-Phe);

(AC₅C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(HoCit)-Aib-Arg(NO₂)-(α -Me-2F-Phe);

Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(HoCit)-A-Arg(NO₂)-(α -Me-2F-Phe);

Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(HoCit)-Aib-Arg(NO₂)-(α -Me-2F-Phe);

(AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(HoCit)-A-Arg(NO₂)-(α -Me-2F-Phe);

(AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(HoCit)-Aib-Arg(NO₂)-(α -Me-2F-Phe);

Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(HoCit)-A-Arg(NO₂)-(α -Me-2F-Phe);

Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(HoCit)-Aib-Arg(NO₂)-(α -Me-2,6-F-Phe);

(AC₅C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(HoCit)-A-Arg(NO₂)-(α -Me-2,6-F-Phe);

(AC₅C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(HoCit)-Aib-Arg(NO₂)-(α -Me-2,6-F-Phe);

Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(HoCit)-A-Arg(NO₂)-(α -Me-2,6-F-Phe);

Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(HoCit)-Aib-Arg(NO₂)-(α -Me-2,6-F-Phe);

(AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(HoCit)-A-Arg(NO₂)-(α -Me-2,6-F-Phe);

(AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(HoCit)-Aib-Arg(NO₂)-(α -Me-2,6-F-Phe);

Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-A-Cit-(α -Me-2F-Phe);

Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-Aib-Cit-(α -Me-2F-Phe);

(AC₅C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-A-Cit-(α -Me-2F-Phe);

(AC₅C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-Aib-Cit-(α -Me-2F-Phe);

Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-A-Cit-(α -Me-2F-Phe);

Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-Aib-Cit-(α -Me-2F-Phe);

(AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-A-Cit-(α -Me-2F-Phe);

(AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-Aib-Cit-(α -Me-2F-Phe);

Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-A-Cit-(α -Me-2,6-F-Phe);

Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-Aib-Cit-(α -Me-2,6-F-Phe);

(AC₅C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-A-Cit-(α -Me-2,6-F-Phe);

(AC₅C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-Aib-Cit-(α -Me-2,6-F-Phe);

Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-A-Cit-(α -Me-2,6-F-Phe);

[illegible]

(AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-A-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe);

(AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-Aib-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe);

Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-A-Arg(NO₂)-(α -Me-2F-Phe);

Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-Aib-Arg(NO₂)-(α -Me-2F-Phe);

(AC₅C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-A-Arg(NO₂)-(α -Me-2F-Phe);

(AC₅C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-Aib-Arg(NO₂)-(α -Me-2F-Phe);

Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-A-Arg(NO₂)-(α -Me-2F-Phe);

Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-Aib-Arg(NO₂)-(α -Me-2F-Phe);

(AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-A-Arg(NO₂)-(α -Me-2F-Phe);

(AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-Aib-Arg(NO₂)-(α -Me-2F-Phe);

Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-A-Arg(NO₂)-(α -Me-2,6-F-Phe);

Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-Aib-Arg(NO₂)-(α -Me-2,6-F-Phe);

(AC₅C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-A-Arg(NO₂)-(α -Me-2,6-F-Phe);

(AC₅C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-Aib-Arg(NO₂)-(α -Me-2,6-F-Phe);

Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-A-Arg(NO₂)-(α -Me-2,6-F-Phe);

Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-Aib-Arg(NO₂)-(α -Me-2,6-F-Phe);

(AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-A-Arg(NO₂)-(α -Me-2,6-F-Phe);

(AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-Aib-Arg(NO₂)-(α -Me-2,6-F-Phe);

Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Aib-A-Cit-(α -Me-2F-Phe);

Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Aib-Aib-Cit-(α -Me-2F-Phe);

(AC₅C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Aib-A-Cit-(α -Me-2F-Phe);

(AC₅C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Aib-Aib-Cit-(α -Me-2F-Phe);

Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Aib-A-Cit-(α -Me-2F-Phe);

Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Aib-Aib-Cit-(α -Me-2F-Phe);

(AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Aib-A-Cit-(α -Me-2F-Phe);

(AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Aib-Aib-Cit-(α -Me-2F-Phe);

Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Aib-A-Cit-(α -Me-2,6-F-Phe);

Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Aib-Aib-Cit-(α -Me-2,6-F-Phe);

(AC₅C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Aib-A-Cit-(α -Me-2,6-F-Phe);

(AC₅C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Aib-Aib-Cit-(α -Me-2,6-F-Phe);

Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Aib-A-Cit-(α -Me-2,6-F-Phe);

Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Aib-Aib-Cit-(α -Me-2,6-F-Phe);
 (AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Aib-A-Cit-(α -Me-2,6-F-Phe);
 (AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Aib-Aib-Cit-(α -Me-2,6-F-Phe);
 Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Aib-A-Aib-(α -Me-2F-Phe);
 Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Aib-Aib-Aib-(α -Me-2F-Phe);
 (AC₅C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Aib-A-Aib-(α -Me-2F-Phe);
 (AC₅C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Aib-Aib-Aib-(α -Me-2F-Phe);
 Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Aib-A-Aib-(α -Me-2F-Phe);
 Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Aib-Aib-Aib-(α -Me-2F-Phe);
 (AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Aib-A-Aib-(α -Me-2F-Phe);
 (AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Aib-Aib-Aib-(α -Me-2F-Phe);
 Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Aib-A-Aib-(α -Me-2,6-F-Phe);
 Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Aib-Aib-Aib-(α -Me-2,6-F-Phe);
 (AC₅C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Aib-A-Aib-(α -Me-2,6-F-Phe);
 (AC₅C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Aib-Aib-Aib-(α -Me-2,6-F-Phe);
 Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Aib-A-Aib-(α -Me-2,6-F-Phe);
 Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Aib-Aib-Aib-(α -Me-2,6-F-Phe);
 (AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Aib-A-Aib-(α -Me-2,6-F-Phe);
 (AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Aib-Aib-Aib-(α -Me-2,6-F-Phe);
 Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Aib-A-(α -Me-2,6-F-Phe)-(α -Me-2F-Phe);
 Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Aib-Aib-(α -Me-2,6-F-Phe)-(α -Me-2F-Phe);
 (AC₅C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Aib-A-(α -Me-2,6-F-Phe)-(α -Me-2F-Phe);
 (AC₅C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Aib-Aib-(α -Me-2,6-F-Phe)-(α -Me-2F-Phe);
 Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Aib-A-(α -Me-2,6-F-Phe)-(α -Me-2F-Phe);
 Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Aib-Aib-(α -Me-2,6-F-Phe)-(α -Me-2F-Phe);
 (AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Aib-A-(α -Me-2,6-F-Phe)-(α -Me-2F-Phe);
 (AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Aib-Aib-(α -Me-2,6-F-Phe)-(α -Me-2F-Phe);
 Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Aib-A-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe);
 Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Aib-Aib-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe);
 (AC₅C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Aib-A-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe);
 (AC₅C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Aib-Aib-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe);
 Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Aib-A-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe);
 Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Aib-Aib-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe);

(AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Aib-A-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe) ;

(AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Aib-Aib-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe);

Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Aib-A-Arg(NO₂)-(α -Me-2F-Phe);

Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Aib-Aib-Arg(NO₂)-(α -Me-2F-Phe);

(AC₅C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Aib-A-Arg(NO₂)-(α -Me-2F-Phe);

(AC₅C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Aib-Aib-Arg(NO₂)-(α -Me-2F-Phe);

Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Aib-A-Arg(NO₂)-(α -Me-2F-Phe);

Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Aib-Aib-Arg(NO₂)-(α -Me-2F-Phe);

(AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Aib-A-Arg(NO₂)-(α -Me-2F-Phe);

(AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Aib-Aib-Arg(NO₂)-(α -Me-2F-Phe);

Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Aib-A-Arg(NO₂)-(α -Me-2,6-F-Phe);

Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Aib-Aib-Arg(NO₂)-(α -Me-2,6-F-Phe)

(AC₅C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Aib-A-Arg(NO₂)-(α -Me-2,6-F-Phe);

(AC₅C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Aib-Aib-Arg(NO₂)-(α -Me-2,6-F-Phe);

Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Aib-A-Arg(NO₂)-(α -Me-2,6-F-Phe);

Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Aib-Aib-Arg(NO₂)-(α -Me-2,6-F-Phe);

(AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Aib-A-Arg(NO₂)-(α -Me-2,6-F-Phe);

(AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Aib-Aib-Arg(NO₂)-(α -Me-2,6-F-Phe);

Aib-V-Aib-EIQLMHQ-Har-AK-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQL-Nle-HQ-Har-AK-(Bip(OMe))-(APPA);

(AC₃C)-V-Aib-EIQLMHQ-Har-AK-(Bip(OMe))-(APPA);

(AC₃C)-V-Aib-EIQL-Nle-HQ-Har-AK-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQLMHQ-Har-AK-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQL-Nle-HQ-Har-AK-(Bip(OMe))-(APPA);

Aib-V-(AC₃C)-EIQLMHQ-Har-AK-(Bip(OMe))-(APPA);

Aib-V-(AC₃C)-EIQL-Nle-HQ-Har-AK-(Bip(OMe))-(APPA);

(AC₃C)-V-(AC₃C)-EIQLMHQ-Har-AK-(Bip(OMe))-(APPA);

(AC₃C)-V-(AC₃C)-EIQL-Nle-HQ-Har-AK-(Bip(OMe))-(APPA);

(AC₅C)-V-(AC₃C)-EIQLMHQ-Har-AK-(Bip(OMe))-(APPA);

(AC₅C)-V-(AC₃C)-EIQL-Nle-HQ-Har-AK-(Bip(OMe))-(APPA);

$\text{Aib-V-Aib-EIQLMHQ-Har(NO}_2\text{)-AK-(Bip(OMe))-(APPA)}$;
 $\text{Aib-V-Aib-EIQL-Nle-HQ-Har(NO}_2\text{)-AK-(Bip(OMe))-(APPA)}$;
 $\text{(AC}_3\text{C)-V-Aib-EIQLMHQ-Har(NO}_2\text{)-AK-(Bip(OMe))-(APPA)}$;
 $\text{(AC}_3\text{C)-V-Aib-EIQL-Nle-HQ-Har(NO}_2\text{)-AK-(Bip(OMe))-(APPA)}$;
 $\text{(AC}_5\text{C)-V-Aib-EIQLMHQ-Har(NO}_2\text{)-AK-(Bip(OMe))-(APPA)}$;
 $\text{(AC}_5\text{C)-V-Aib-EIQL-Nle-HQ-Har(NO}_2\text{)-AK-(Bip(OMe))-(APPA)}$;
 $\text{Aib-V-(AC}_3\text{C)-EIQLMHQ-Har(NO}_2\text{)-AK-(Bip(OMe))-(APPA)}$;
 $\text{Aib-V-(AC}_3\text{C)-EIQL-Nle-HQ-Har(NO}_2\text{)-AK-(Bip(OMe))-(APPA)}$;
 $\text{(AC}_3\text{C)-V-(AC}_3\text{C)-EIQLMHQ-Har(NO}_2\text{)-AK-(Bip(OMe))-(APPA)}$;
 $\text{(AC}_3\text{C)-V-(AC}_3\text{C)-EIQL-Nle-HQ-Har(NO}_2\text{)-AK-(Bip(OMe))-(APPA)}$;
 $\text{(AC}_5\text{C)-V-(AC}_3\text{C)-EIQLMHQ-Har(NO}_2\text{)-AK-(Bip(OMe))-(APPA)}$;
 $\text{(AC}_5\text{C)-V-(AC}_3\text{C)-EIQL-Nle-HQ-Har(NO}_2\text{)-AK-(Bip(OMe))-(APPA)}$;
 $\text{Aib-V-Aib-EIQLMHQ-Har(NO}_2\text{)-A-K(비오틴)-(Bip(OMe))-(APPA)}$;
 $\text{Aib-V-Aib-EIQL-Nle-HQ-Har(NO}_2\text{)-A-K(비오틴)-(Bip(OMe))-(APPA)}$;
 $\text{Aib-V-Aib-EIQLMHQ-Har-A-K(비오틴)-(Bip(OMe))-(APPA)}$;
 $\text{Aib-V-Aib-EIQL-Nle-HQ-Har-A-K(비오틴)-(Bip(OMe))-(APPA)}$;
 $\text{Aib-V-Aib-EIQLMHQ-Har(NO}_2\text{)-A-K(-CO-(CH}_2\text{)}_6\text{-CH}_3\text{)-(Bip(OMe))-(APPA)}$;
 $\text{Aib-V-Aib-EIQL-Nle-HQ-Har(NO}_2\text{)-A-K(-CO-(CH}_2\text{)}_6\text{-CH}_3\text{)-(Bip(OMe))-(APPA)}$;
 $\text{Aib-V-Aib-EIQLMHQ-Har-A-K(-CO-(CH}_2\text{)}_6\text{-CH}_3\text{)-(Bip(OMe))-(APPA)}$;
 $\text{Aib-V-Aib-EIQL-Nle-HQ-Har-A-K(-CO-(CH}_2\text{)}_6\text{-CH}_3\text{)-(Bip(OMe))-(APPA)}$;
 $\text{Aib-V-Aib-EIQLMHQ-Har(NO}_2\text{)-A-K(-CO-(CH}_2\text{)}_8\text{-CH}_3\text{)-(Bip(OMe))-(APPA)}$;
 $\text{Aib-V-Aib-EIQL-Nle-HQ-Har(NO}_2\text{)-A-K(-CO-(CH}_2\text{)}_8\text{-CH}_3\text{)-(Bip(OMe))-(APPA)}$;
 $\text{Aib-V-Aib-EIQLMHQ-Har-A-K(-CO-(CH}_2\text{)}_8\text{-CH}_3\text{)-(Bip(OMe))-(APPA)}$;
 $\text{Aib-V-Aib-EIQL-Nle-HQ-Har-A-K(-CO-(CH}_2\text{)}_8\text{-CH}_3\text{)-(Bip(OMe))-(APPA)}$;
 $\text{(AC}_5\text{C)-V-(AC}_3\text{C)-EIQL-Nle-HQ-Har-A-K(-CO-(CH}_2\text{)}_8\text{-CH}_3\text{)-(Bip(OMe))-(APPA)}$;
 $\text{(AC}_5\text{C)-V-(AC}_3\text{C)-EIQLMHQ-Har(NO}_2\text{)-A-(NMe)K-(Bip(OMe))-(APPA)}$;
 $\text{(AC}_5\text{C)-V-(AC}_3\text{C)-EIQL-Nle-HQ-Har(NO}_2\text{)-A-(NMe)K-(Bip(OMe))-(APPA)}$;
 $\text{(AC}_5\text{C)-V-(AC}_3\text{C)-EIQL-(NMe)M-HQ-Har-A-K(-CO-(CH}_2\text{)}_8\text{-CH}_3\text{)-(Bip(OMe))-(APPA)}$;
 $\text{(AC}_5\text{C)-V-(AC}_3\text{C)-EIQL-(NMe)Nle-HQ-Har-A-K(-CO-(CH}_2\text{)}_8\text{-CH}_3\text{)-(Bip(OMe))-(APPA)}$;
 $\text{(AC}_3\text{C)-V-(AC}_3\text{C)-EIQL-(NMe)M-HQ-Har(NO}_2\text{)-A-(NMe)K-(Bip(OMe))-(APPA)}$;

$(AC_3C)-V-(AC_3C)-EIQL-(NMe)Nle-HQ-Har(NO_2)-A-(NMe)K-(Bip(OMe))-(APPA);$
 $(AC_5C)-V-(AC_3C)-EIQL-(NMe)M-HQ-Har(NO_2)-A-(NMe)K-(Bip(OMe))-(APPA);$
 $(AC_5C)-V-(AC_3C)-EIQL-(NMe)Nle-HQ-Har(NO_2)-A-(NMe)K-(Bip(OMe))-(APPA);$
 $Aib-V-Aib-EIQLMHQ-Har-AK-(Bip(OMe));$
 $Aib-V-Aib-EIQL-Nle-HQ-Har-AK-(Bip(OMe));$
 $(AC_3C)-V-Aib-EIQLMHQ-Har-AK-(Bip(OMe));$
 $(AC_3C)-V-Aib-EIQL-Nle-HQ-Har-AK-(Bip(OMe));$
 $(AC_5C)-V-Aib-EIQLMHQ-Har-AK-(Bip(OMe));$
 $(AC_5C)-V-Aib-EIQL-Nle-HQ-Har-AK-(Bip(OMe));$
 $Aib-V-(AC_3C)-EIQLMHQ-Har-AK-(Bip(OMe));$
 $Aib-V-(AC_3C)-EIQL-Nle-HQ-Har-AK-(Bip(OMe));$
 $(AC_3C)-V-(AC_3C)-EIQLMHQ-Har-AK-(Bip(OMe));$
 $(AC_3C)-V-(AC_3C)-EIQL-Nle-HQ-Har-AK-(Bip(OMe));$
 $(AC_5C)-V-(AC_3C)-EIQLMHQ-Har-AK-(Bip(OMe));$
 $(AC_5C)-V-(AC_3C)-EIQL-Nle-HQ-Har-AK-(Bip(OMe));$
 $Aib-V-Aib-EIQLMHQ-Har(NO_2)-AK-(Bip(OMe));$
 $Aib-V-Aib-EIQL-Nle-HQ-Har(NO_2)-AK-(Bip(OMe));$
 $Aib-V-Aib-EIQLMHQ-Har(NO_2)-A-K(비오틴)-(Bip(OMe));$
 $Aib-V-Aib-EIQL-Nle-HQ-Har(NO_2)-A-K(비오틴)-(Bip(OMe));$
 $Aib-V-Aib-EIQLMHQ-Har-A-K(비오틴)-(Bip(OMe));$
 $Aib-V-Aib-EIQL-Nle-HQ-Har-A-K(비오틴)-(Bip(OMe));$
 $Aib-V-Aib-EIQLMHQ-Har(NO_2)-A-K(-CO-(CH_2)_6-CH_3)-(Bip(OMe));$
 $Aib-V-Aib-EIQL-Nle-HQ-Har(NO_2)-A-K(-CO-(CH_2)_6-CH_3)-(Bip(OMe));$
 $Aib-V-Aib-EIQLMHQ-Har-A-K(-CO-(CH_2)_6-CH_3)-(Bip(OMe));$
 $Aib-V-Aib-EIQL-Nle-HQ-Har-A-K(-CO-(CH_2)_6-CH_3)-(Bip(OMe));$
 $Aib-V-Aib-EIQLMHQ-Har(NO_2)-A-K(-CO-(CH_2)_8-CH_3)-(Bip(OMe));$
 $Aib-V-Aib-EIQL-Nle-HQ-Har(NO_2)-A-K(-CO-(CH_2)_8-CH_3)-(Bip(OMe));$
 $Aib-V-Aib-EIQLMHQ-Har-A-K(-CO-(CH_2)_8-CH_3)-(Bip(OMe));$
 $Aib-V-Aib-EIQL-Nle-HQ-Har-A-K(-CO-(CH_2)_8-CH_3)-(Bip(OMe));$
 $(AC_5C)-V-(AC_3C)-EIQLMHQ-Har-A-K(-CO-(CH_2)_8-CH_3)-(Bip(OMe));$

$(AC_5C)-V-(AC_3C)-EIQL-Nle-HQ-Har-A-K(-CO-(CH_2)_8-CH_3)-(Bip(OMe))$;
 $(AC_5C)-V-(AC_3C)-EIQLMHQ-Har(NO_2)-A-(NMe)K-(Bip(OMe))$;
 $(AC_5C)-V-(AC_3C)-EIQL-Nle-HQ-Har(NO_2)-A-(NMe)K-(Bip(OMe))$;
 $Aib-V-Aib-EIQL-(NMe)M-HQ-Har-A-K(-CO-(CH_2)_8-CH_3)-(Bip(OMe))$;
 $Aib-V-Aib-EIQL-(NMe)Nle-HQ-Har-A-K(-CO-(CH_2)_8-CH_3)-(Bip(OMe))$;
 $(AC_3C)-V-Aib-EIQL-(NMe)M-HQ-Har-A-K(-CO-(CH_2)_8-CH_3)-(Bip(OMe))$;
 $(AC_3C)-V-Aib-EIQL-(NMe)Nle-HQ-Har-A-K(-CO-(CH_2)_8-CH_3)-(Bip(OMe))$;
 $Aib-V-Aib-EIQLMHQ-Har-A-Arg(NO_2)-(Bip(OMe))-(APPA)$;
 $Aib-V-Aib-EIQL-Nle-HQ-Har-A-Arg(NO_2)-(Bip(OMe))-(APPA)$;
 $(AC_3C)-V-Aib-EIQLMHQ-Har-A-Arg(NO_2)-(Bip(OMe))-(APPA)$;
 $(AC_3C)-V-Aib-EIQL-Nle-HQ-Har-A-Arg(NO_2)-(Bip(OMe))-(APPA)$;
 $(AC_5C)-V-Aib-EIQLMHQ-Har-A-Arg(NO_2)-(Bip(OMe))-(APPA)$;
 $(AC_5C)-V-Aib-EIQLMHQ-Har-Aib-Arg(NO_2)-(Bip(OMe))-(APPA)$;
 $(AC_5C)-V-Aib-EIQL-Nle-HQ-Har-A-Arg(NO_2)-(Bip(OMe))-(APPA)$;
 $Aib-V-(AC_3C)-EIQLMHQ-Har-A-Arg(NO_2)-(Bip(OMe))-(APPA)$;
 $Aib-V-(AC_3C)-EIQL-Nle-HQ-Har-A-Arg(NO_2)-(Bip(OMe))-(APPA)$;
 $(AC_3C)-V-(AC_3C)-EIQLMHQ-Har-A-Arg(NO_2)-(Bip(OMe))-(APPA)$;
 $(AC_3C)-V-(AC_3C)-EIQL-Nle-HQ-Har-A-Arg(NO_2)-(Bip(OMe))-(APPA)$;
 $(AC_5C)-V-(AC_3C)-EIQLMHQ-Har-A-Arg(NO_2)-(Bip(OMe))-(APPA)$;
 $(AC_5C)-V-(AC_3C)-EIQL-Nle-HQ-Har-A-Arg(NO_2)-(Bip(OMe))-(APPA)$;
 $Aib-V-Aib-EIQ-(\alpha-Me-2,6-F-Phe)-Nle-HQ-Har-A-Arg(NO_2)-(Bip(OMe))-(APPA)$;
 $(AC_3C)-V-Aib-EIQ-(\alpha-Me-2,6-F-Phe)-Nle-HQ-Har-A-Arg(NO_2)-(Bip(OMe))-(APPA)$;
 $(AC_5C)-V-Aib-EIQ-(\alpha-Me-2,6-F-Phe)-Nle-HQ-Har-A-Arg(NO_2)-(Bip(OMe))-(APPA)$;
 $Aib-V-(AC_3C)-EIQ-(\alpha-Me-2,6-F-Phe)-Nle-HQ-Har-A-Arg(NO_2)-(Bip(OMe))-(APPA)$;
 $(AC_3C)-V-(AC_3C)-EIQ-(\alpha-Me-2,6-F-Phe)-Nle-HQ-Har-A-Arg(NO_2)-(Bip(OMe))-(APPA)$;
 $(AC_5C)-V-(AC_3C)-EIQ-(\alpha-Me-2,6-F-Phe)-Nle-HQ-Har-A-Arg(NO_2)-(Bip(OMe))-(APPA)$;
 $Aib-V-Aib-EIQ-(\alpha-Me-2F-Phe)-Nle-HQ-Har-A-Arg(NO_2)-(Bip(OMe))-(APPA)$;
 $(AC_3C)-V-Aib-EIQ-(\alpha-Me-2F-Phe)-Nle-HQ-Har-A-Arg(NO_2)-(Bip(OMe))-(APPA)$;
 $(AC_5C)-V-Aib-EIQ-(\alpha-Me-2F-Phe)-Nle-HQ-Har-A-Arg(NO_2)-(Bip(OMe))-(APPA)$;
 $Aib-V-(AC_3C)-EIQ-(\alpha-Me-2F-Phe)-Nle-HQ-Har-A-Arg(NO_2)-(Bip(OMe))-(APPA)$;

$(AC_3C)-V-(AC_3C)-EIQ-(\alpha\text{-Me-2F-Phe})-Nle-HQ-Har-A-Arg(NO_2)-(Bip(OMe))-(APPA);$
 $(AC_5C)-V-(AC_3C)-EIQ-(\alpha\text{-Me-2F-Phe})-Nle-HQ-Har-A-Arg(NO_2)-(Bip(OMe))-(APPA);$
 $Aib-V-Aib-EIQ-(\alpha\text{-Me-2,6-F-Phe})-Nle-HQ-Har-A-Arg(NO_2)-(\alpha\text{-Me-2,6-F-Phe})-(APPA);$
 $(AC_3C)-V-Aib-EIQ-(\alpha\text{-Me-2,6-F-Phe})-Nle-HQ-Har-A-Arg(NO_2)-(\alpha\text{-Me-2,6-F-Phe})-(APPA);$
 $(AC_5C)-V-Aib-EIQ-(\alpha\text{-Me-2,6-F-Phe})-Nle-HQ-Har-A-Arg(NO_2)-(\alpha\text{-Me-2,6-F-Phe})-(APPA);$
 $Aib-V-(AC_3C)-EIQ-(\alpha\text{-Me-2,6-F-Phe})-Nle-HQ-Har-A-Arg(NO_2)-(\alpha\text{-Me-2,6-F-Phe})-(APPA);$
 $(AC_3C)-V-(AC_3C)-EIQ-(\alpha\text{-Me-2,6-F-Phe})-Nle-HQ-Har-A-Arg(NO_2)-(\alpha\text{-Me-2,6-F-Phe})-(APPA);$
 $(AC_5C)-V-(AC_3C)-EIQ-(\alpha\text{-Me-2,6-F-Phe})-Nle-HQ-Har-A-Arg(NO_2)-(\alpha\text{-Me-2,6-F-Phe})-(APPA);$
 $Aib-V-Aib-EIQ-(\alpha\text{-Me-2F-Phe})-Nle-HQ-Har-A-Arg(NO_2)-(\alpha\text{-Me-2,6-F-Phe})-(APPA);$
 $(AC_3C)-V-Aib-EIQ-(\alpha\text{-Me-2F-Phe})-Nle-HQ-Har-A-Arg(NO_2)-(\alpha\text{-Me-2,6-F-Phe})-(APPA);$
 $(AC_5C)-V-Aib-EIQ-(\alpha\text{-Me-2F-Phe})-Nle-HQ-Har-A-Arg(NO_2)-(\alpha\text{-Me-2,6-F-Phe})-(APPA);$
 $Aib-V-(AC_3C)-EIQ-(\alpha\text{-Me-2F-Phe})-Nle-HQ-Har-A-Arg(NO_2)-(\alpha\text{-Me-2,6-F-Phe})-(APPA);$
 $(AC_3C)-V-(AC_3C)-EIQ-(\alpha\text{-Me-2F-Phe})-Nle-HQ-Har-A-Arg(NO_2)-(\alpha\text{-Me-2,6-F-Phe})-(APPA);$
 $(AC_5C)-V-(AC_3C)-EIQ-(\alpha\text{-Me-2F-Phe})-Nle-HQ-Har-A-Arg(NO_2)-(\alpha\text{-Me-2,6-F-Phe})-(APPA);$
 $Aib-V-Aib-EIQ-(\alpha\text{-Me-2,6-F-Phe})-Nle-HQ-Har-A-Arg(NO_2)-(\alpha\text{-Me-2F-Phe})-(APPA);$
 $(AC_3C)-V-Aib-EIQ-(\alpha\text{-Me-2,6-F-Phe})-Nle-HQ-Har-A-Arg(NO_2)-(\alpha\text{-Me-2F-Phe})-(APPA);$
 $(AC_5C)-V-Aib-EIQ-(\alpha\text{-Me-2,6-F-Phe})-Nle-HQ-Har-A-Arg(NO_2)-(\alpha\text{-Me-2F-Phe})-(APPA);$
 $Aib-V-(AC_3C)-EIQ-(\alpha\text{-Me-2,6-F-Phe})-Nle-HQ-Har-A-Arg(NO_2)-(\alpha\text{-Me-2F-Phe})-(APPA);$
 $(AC_3C)-V-(AC_3C)-EIQ-(\alpha\text{-Me-2,6-F-Phe})-Nle-HQ-Har-A-Arg(NO_2)-(\alpha\text{-Me-2F-Phe})-(APPA);$
 $(AC_5C)-V-(AC_3C)-EIQ-(\alpha\text{-Me-2,6-F-Phe})-Nle-HQ-Har-A-Arg(NO_2)-(\alpha\text{-Me-2F-Phe})-(APPA);$
 $Aib-V-Aib-EIQ-(\alpha\text{-Me-2F-Phe})-Nle-HQ-Har-A-Arg(NO_2)-(\alpha\text{-Me-2F-Phe})-(APPA);$
 $(AC_3C)-V-Aib-EIQ-(\alpha\text{-Me-2F-Phe})-Nle-HQ-Har-A-Arg(NO_2)-(\alpha\text{-Me-2F-Phe})-(APPA);$
 $(AC_5C)-V-Aib-EIQ-(\alpha\text{-Me-2F-Phe})-Nle-HQ-Har-A-Arg(NO_2)-(\alpha\text{-Me-2F-Phe})-(APPA);$
 $(AC_5C)-V-Aib-EIQ-(\alpha\text{-Me-2F-Phe})-Nle-HQ-Har-Aib-Arg(NO_2)-(\alpha\text{-Me-2F-Phe})-(APPA);$
 $Aib-V-(AC_3C)-EIQ-(\alpha\text{-Me-2F-Phe})-Nle-HQ-Har-A-Arg(NO_2)-(\alpha\text{-Me-2F-Phe})-(APPA);$
 $(AC_3C)-V-(AC_3C)-EIQ-(\alpha\text{-Me-2F-Phe})-Nle-HQ-Har-A-Arg(NO_2)-(\alpha\text{-Me-2F-Phe})-(APPA);$
 $(AC_5C)-V-(AC_3C)-EIQ-(\alpha\text{-Me-2F-Phe})-Nle-HQ-Har-A-Arg(NO_2)-(\alpha\text{-Me-2F-Phe})-(APPA);$
 $Aib-V-Aib-EIQL-Nle-HQ-Har-AR-(Bip(OMe))-(APPA);$
 $(AC_5C)-V-Aib-EIQL-Nle-HQ-Har-AR-(Bip(OMe))-(APPA);$
 $Aib-V-Aib-EIQL-Nle-HQ-Har-A-Cit-(Bip(OMe))-(APPA);$

(AC₅C)-V-Aib-EIQL-Nle-HQ-Har-A-Cit-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQL-Nle-HQ-Har-A-Aib-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQL-Nle-HQ-Har-A-Aib-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQL-Nle-HQ-Har-A-(α -Me-2,6-F-Phe)-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQL-Nle-HQ-Har-A-(α -Me-2,6-F-Phe)-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQL-Nle-HQ-Har-Aib-R-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQL-Nle-HQ-Har-Aib-R-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQL-Nle-HQ-Har-Aib-Cit-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQL-Nle-HQ-Har-Aib-Cit-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQL-Nle-HQ-Har-Aib-Aib-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQL-Nle-HQ-Har-Aib-Aib-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQL-Nle-HQ-Har-Aib-(α -Me-2,6-F-Phe)-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQL-Nle-HQ-Har-Aib-(α -Me-2,6-F-Phe)-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQL-Nle-HQ-Orn-AR-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQL-Nle-HQ-Orn-AR-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQL-Nle-HQ-Orn-A-Cit-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQL-Nle-HQ-Orn-A-Cit-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQL-Nle-HQ-Orn-A-Aib-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQL-Nle-HQ-Orn-A-Aib-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQL-Nle-HQ-Orn-A-(α -Me-2,6-F-Phe)-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQL-Nle-HQ-Orn-A-(α -Me-2,6-F-Phe)-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQL-Nle-HQ-Orn-Aib-R-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQL-Nle-HQ-Orn-Aib-R-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQL-Nle-HQ-Orn-Aib-Cit-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQL-Nle-HQ-Orn-Aib-Cit-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQL-Nle-HQ-Orn-Aib-Aib-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQL-Nle-HQ-Orn-Aib-Aib-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQL-Nle-HQ-Orn-Aib-(α -Me-2,6-F-Phe)-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQL-Nle-HQ-Orn-Aib-(α -Me-2,6-F-Phe)-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQL-Nle-HQ-Cit-AR-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQL-Nle-HQ-Cit-AR-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQL-Nle-HQ-Cit-A-Cit-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQL-Nle-HQ-Cit-A-Cit-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQL-Nle-HQ-Cit-A-Aib-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQL-Nle-HQ-Cit-A-Aib-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQL-Nle-HQ-Cit-A-(α -Me-2,6-F-Phe)-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQL-Nle-HQ-Cit-A-(α -Me-2,6-F-Phe)-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQL-Nle-HQ-Cit-Aib-R-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQL-Nle-HQ-Cit-Aib-R-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQL-Nle-HQ-Cit-Aib-Cit-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQL-Nle-HQ-Cit-Aib-Cit-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQL-Nle-HQ-Cit-Aib-Aib-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQL-Nle-HQ-Cit-Aib-Aib-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQL-Nle-HQ-Cit-Aib-(α -Me-2,6-F-Phe)-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQL-Nle-HQ-Cit-Aib-(α -Me-2,6-F-Phe)-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQL-Nle-HQ-(HoCit)-AR-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQL-Nle-HQ-(HoCit)-AR-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQL-Nle-HQ-(HoCit)-A-Cit-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQL-Nle-HQ-(HoCit)-A-Cit-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQL-Nle-HQ-(HoCit)-A-Aib-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQL-Nle-HQ-(HoCit)-A-Aib-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQL-Nle-HQ-(HoCit)-A-(α -Me-2,6-F-Phe)-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQL-Nle-HQ-(HoCit)-A-(α -Me-2,6-F-Phe)-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQL-Nle-HQ-(HoCit)-Aib-R-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQL-Nle-HQ-(HoCit)-Aib-R-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQL-Nle-HQ-(HoCit)-Aib-Cit-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQL-Nle-HQ-(HoCit)-Aib-Cit-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQL-Nle-HQ-(HoCit)-Aib-Aib-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQL-Nle-HQ-(HoCit)-Aib-Aib-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQL-Nle-HQ-(HoCit)-Aib-(α -Me-2,6-F-Phe)-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQL-Nle-HQ-(HoCit)-Aib-(α -Me-2,6-F-Phe)-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQL-Nle-HQ-(α -Me-2,6-F-Phe)-AR-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQL-Nle-HQ-(α -Me-2,6-F-Phe)-AR-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQL-Nle-HQ-(α -Me-2,6-F-Phe)-A-Cit-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQL-Nle-HQ-(α -Me-2,6-F-Phe)-A-Cit-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQL-Nle-HQ-(α -Me-2,6-F-Phe)-A-Aib-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQL-Nle-HQ-(α -Me-2,6-F-Phe)-A-Aib-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQL-Nle-HQ-(α -Me-2,6-F-Phe)-A-(α -Me-2,6-F-Phe)-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQL-Nle-HQ-(α -Me-2,6-F-Phe)-A-(α -Me-2,6-F-Phe)-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQL-Nle-HQ-(α -Me-2,6-F-Phe)-Aib-R-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQL-Nle-HQ-(α -Me-2,6-F-Phe)-Aib-R-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQL-Nle-HQ-(α -Me-2,6-F-Phe)-Aib-Cit-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQL-Nle-HQ-(α -Me-2,6-F-Phe)-Aib-Cit-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQL-Nle-HQ-(α -Me-2,6-F-Phe)-Aib-Aib-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQL-Nle-HQ-(α -Me-2,6-F-Phe)-Aib-Aib-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQL-Nle-HQ-(α -Me-2,6-F-Phe)-Aib-(α -Me-2,6-F-Phe)-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQL-Nle-HQ-(α -Me-2,6-F-Phe)-Aib-(α -Me-2,6-F-Phe)-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-AR-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-AR-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-A-Cit-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-A-Cit-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-A-Aib-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-A-Aib-(Bip(OMe))-(APPA)'

Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-A-(α -Me-2,6-F-Phe)-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-A-(α -Me-2,6-F-Phe)-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-R-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-R-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-Cit-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-Cit-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-Aib-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-Aib-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-(α -Me-2,6-F-Phe)-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-(α -Me-2,6-F-Phe)-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-AR-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-AR-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-A-Cit-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQ-(α-Me-2,6-F-Phe)-Nle-HQ-Orn-A-Cit-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQ-(α-Me-2,6-F-Phe)-Nle-HQ-Orn-A-Aib-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQ-(α-Me-2,6-F-Phe)-Nle-HQ-Orn-A-Aib-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQ-(α-Me-2,6-F-Phe)-Nle-HQ-Orn-A-(α-Me-2,6-F-Phe)-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQ-(α-Me-2,6-F-Phe)-Nle-HQ-Orn-A-(α-Me-2,6-F-Phe)-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQ-(α-Me-2,6-F-Phe)-Nle-HQ-Orn-Aib-R-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQ-(α-Me-2,6-F-Phe)-Nle-HQ-Orn-Aib-R-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQ-(α-Me-2,6-F-Phe)-Nle-HQ-Orn-Aib-Cit-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQ-(α-Me-2,6-F-Phe)-Nle-HQ-Orn-Aib-Cit-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQ-(α-Me-2,6-F-Phe)-Nle-HQ-Orn-Aib-Aib-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQ-(α-Me-2,6-F-Phe)-Nle-HQ-Orn-Aib-Aib-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQ-(α-Me-2,6-F-Phe)-Nle-HQ-Orn-Aib-(α-Me-2,6-F-Phe)-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQ-(α-Me-2,6-F-Phe)-Nle-HQ-Orn-Aib-(α-Me-2,6-F-Phe)-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQ-(α-Me-2,6-F-Phe)-Nle-HQ-Cit-AR-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQ-(α-Me-2,6-F-Phe)-Nle-HQ-Cit-AR-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQ-(α-Me-2,6-F-Phe)-Nle-HQ-Cit-A-Cit-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQ-(α-Me-2,6-F-Phe)-Nle-HQ-Cit-A-Cit-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQ-(α-Me-2,6-F-Phe)-Nle-HQ-Cit-A-Aib-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQ-(α-Me-2,6-F-Phe)-Nle-HQ-Cit-A-Aib-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQ-(α-Me-2,6-F-Phe)-Nle-HQ-Cit-A-(α-Me-2,6-F-Phe)-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQ-(α-Me-2,6-F-Phe)-Nle-HQ-Cit-A-(α-Me-2,6-F-Phe)-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQ-(α-Me-2,6-F-Phe)-Nle-HQ-Cit-Aib-R-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQ-(α-Me-2,6-F-Phe)-Nle-HQ-Cit-Aib-R-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQ-(α-Me-2,6-F-Phe)-Nle-HQ-Cit-Aib-Cit-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQ-(α-Me-2,6-F-Phe)-Nle-HQ-Cit-Aib-Cit-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQ-(α-Me-2,6-F-Phe)-Nle-HQ-Cit-Aib-Aib-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQ-(α-Me-2,6-F-Phe)-Nle-HQ-Cit-Aib-Aib-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQ-(α-Me-2,6-F-Phe)-Nle-HQ-Cit-Aib-(α-Me-2,6-F-Phe)-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQ-(α-Me-2,6-F-Phe)-Nle-HQ-Cit-Aib-(α-Me-2,6-F-Phe)-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQ-(α-Me-2,6-F-Phe)-Nle-HQ-(HoCit)-AR-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQ-(α-Me-2,6-F-Phe)-Nle-HQ-(HoCit)-AR-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQ-(α-Me-2,6-F-Phe)-Nle-HQ-(HoCit)-A-Cit-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(HoCit)-A-Cit-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(HoCit)-A-Aib-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(HoCit)-A-Aib-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(HoCit)-A-(α -Me-2,6-F-Phe)-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(HoCit)-A-(α -Me-2,6-F-Phe)-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(HoCit)-Aib-R-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(HoCit)-Aib-R-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(HoCit)-Aib-Cit-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(HoCit)-Aib-Cit-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(HoCit)-Aib-Aib-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(HoCit)-Aib-Aib-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(HoCit)-Aib-(α -Me-2,6-F-Phe)-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(HoCit)-Aib-(α -Me-2,6-F-Phe)-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-AR-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-AR-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-A-Cit-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-A-Cit-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-A-Aib-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-A-Aib-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-A-(α -Me-2,6-F-Phe)-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-A-(α -Me-2,6-F-Phe)-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-Aib-R-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-Aib-R-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-Aib-Cit-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-Aib-Cit-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-Aib-Aib-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-Aib-Aib-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-Aib-(α -Me-2,6-F-Phe)-(Bip(OMe))-(APPA);

(AC₅C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-Aib-(α -Me-2,6-F-Phe)-(Bip(OMe))-(APPA);

Aib-V-Aib-EIQLMHQ-Har-AK-(α Me-Bip(OMe))-(APPA);

Aib-V-Aib-EIQL-Nle-HQ-Har-AK-(α Me-Bip(OMe))-(APPA);

V-Aib-V-Aib-EIQLMHQ-Har-AK-(Bip(OMe))-(α Me-APPA);

V-Aib-V-Aib-EIQL-Nle-HQ-Har-AK-(Bip(OMe))-(α Me-APPA);

(α Me-V)-(AC₅C)-V-Aib-EIQLMHQ-Har-AK-(Bip(OMe))-(α Me-APPA);

(α Me-V)-(AC₅C)-V-Aib-EIQL-Nle-HQ-Har-AK-(Bip(OMe))-(α Me-APPA);

(NMe-V)-(AC₅C)-V-Aib-EIQLMHQ-Har-AK-(Bip(OMe))-(α Me-APPA);

(NMe-V)-(AC₅C)-V-Aib-EIQL-Nle-HQ-Har-AK-(Bip(OMe))-(α Me-APPA);

Aib-V-Aib-EIQLMHQ-Har-A-Har-(α Me-Bip(OMe))-(APPA);

Aib-V-Aib-EIQL-Nle-HQ-Har-A-Har-(α Me-Bip(OMe))-(APPA);

Aib-V-Aib-EIQLMHQ-Har-A-Har-(Bip(OMe))-(α Me-APPA);

Aib-V-Aib-EIQL-Nle-HQ-Har-A-Har-(Bip(OMe))-(α Me-APPA);

V-Aib-V-Aib-EIQLMHQ-Har-A-Har-(α Me-Bip(OMe))-(APPA);

V-Aib-V-Aib-EIQL-Nle-HQ-Har-A-Har-(α Me-Bip(OMe))-(APPA);

V-Aib-V-Aib-EIQLMHQ-Har-A-Har-(Bip(OMe))-(α Me-APPA);

V-Aib-V-Aib-EIQL-Nle-HQ-Har-A-Har-(Bip(OMe))-(α Me-APPA);

(α Me-V)-(AC₅C)-V-Aib-EIQLMHQ-Har-A-Har-(Bip(OMe))-(α Me-APPA);

(α Me-V)-(AC₅C)-V-Aib-EIQL-Nle-HQ-Har-A-Har-(Bip(OMe))-(α Me-APPA);

(NMe-V)-(AC₅C)-V-Aib-EIQLMHQ-Har-A-Har-(Bip(OMe))-(α Me-APPA);

(NMe-V)-(AC₅C)-V-Aib-EIQL-Nle-HQ-Har-A-Har-(Bip(OMe))-(α Me-APPA);

Aib-V-Aib-EIQL-(α Me-M)-HQ-Har-A-Har-(α Me-Bip(OMe))-(APPA);

Aib-V-Aib-EIQL-(α Me-Nle)-HQ-Har-A-Har-(α Me-Bip(OMe))-(APPA);

Aib-V-Aib-EIQL-(α Me-M)-HQ-Har-A-Har-(Bip(OMe))-(α Me-APPA);

Aib-V-Aib-EIQL-(α Me-Nle)-HQ-Har-A-Har-(Bip(OMe))-(α Me-APPA);

V-Aib-V-Aib-EIQL-(α Me-M)-HQ-Har-A-Har-(α Me-Bip(OMe))-(APPA);

V-Aib-V-Aib-EIQL-(α Me-Nle)-HQ-Har-A-Har-(α Me-Bip(OMe))-(APPA);

V-(AC₃C)-V-Aib-EIQL-(α Me-M)-HQ-Har-A-Har-(α Me-Bip(OMe))-(APPA);

V-(AC₃C)-V-Aib-EIQL-(α Me-Nle)-HQ-Har-A-Har-(α Me-Bip(OMe))-(APPA);

V-(AC₅C)-V-Aib-EIQL-(α Me-M)-HQ-Har-A-Har-(α Me-Bip(OMe))-(APPA);

V-(AC₅C)-V-Aib-EIQL-(α Me-Nle)-HQ-Har-A-Har-(α Me-Bip(OMe))-(APPA);

V-Aib-V-Aib-EIQL-(α Me-M)-HQ-Har-A-Har-(Bip(OMe))-(α Me-APPA);

V-Aib-V-Aib-EIQL-(α Me-Nle)-HQ-Har-A-Har-(Bip(OMe))-(α Me-APPA);

V-(AC₃C)-V-Aib-EIQL-(α Me-M)-HQ-Har-A-Har-(Bip(OMe))-(α Me-APPA);

V-(AC₃C)-V-Aib-EIQL-(α Me-Nle)-HQ-Har-A-Har-(Bip(OMe))-(α Me-APPA);

V-(AC₅C)-V-Aib-EIQL-(α Me-M)-HQ-Har-A-Har-(Bip(OMe))-(α Me-APPA);

V-(AC₅C)-V-Aib-EIQL-(α Me-Nle)-HQ-Har-A-Har-(Bip(OMe))-(α Me-APPA);

(α Me-V)-(AC₅C)-V-Aib-EIQL-(α Me-M)-HQ-Har-A-Har-(Bip(OMe))-(α Me-APPA);

(α Me-V)-(AC₅C)-V-Aib-EIQL-(α Me-Nle)-HQ-Har-A-Har-(Bip(OMe))-(α Me-APPA);

(NMe-V)-(AC₅C)-V-Aib-EIQL-(α Me-M)-HQ-Har-A-Har-(Bip(OMe))-(α Me-APPA);

(NMe-V)-(AC₅C)-V-Aib-EIQL-(α Me-Nle)-HQ-Har-A-Har-(Bip(OMe))-(α Me-APPA);

Aib-V-Aib-EIQL-(α Me-M)-HQ-Har-A-Har-(α Me-2FPhe)-(APPA);

Aib-V-Aib-EIQL-(α Me-Nle)-HQ-Har-A-Har-(α Me-2FPhe)-(APPA);

V-Aib-V-Aib-EIQL-(α Me-M)-HQ-Har-A-Har-(α Me-2FPhe)-(α Me-APPA);

V-Aib-V-Aib-EIQL-(α Me-Nle)-HQ-Har-A-Har-(α Me-2FPhe)-(α Me-APPA);

V-(AC₃C)-V-Aib-EIQL-(α Me-M)-HQ-Har-A-Har-(α Me-2FPhe)-(α Me-APPA);

V-(AC₃C)-V-Aib-EIQL-(α Me-Nle)-HQ-Har-A-Har-(α Me-2FPhe)-(α Me-APPA);

V-(AC₅C)-V-Aib-EIQL-(α Me-M)-HQ-Har-A-Har-(α Me-2FPhe)-(α Me-APPA);

V-(AC₅C)-V-Aib-EIQL-(α Me-Nle)-HQ-Har-A-Har-(α Me-2FPhe)-(α Me-APPA);

(α Me-V)-(AC₅C)-V-Aib-EIQL-(α Me-M)-HQ-Har-A-Har-(α Me-2FPhe)-(α Me-APPA);

(α Me-V)-(AC₅C)-V-Aib-EIQL-(α Me-Nle)-HQ-Har-A-Har-(α Me-2FPhe)-(α Me-APPA);

(NMe-V)-(AC₅C)-V-Aib-EIQL-(α Me-M)-HQ-Har-A-Har-(α Me-2FPhe)-(α Me-APPA);

(NMe-V)-(AC₅C)-V-Aib-EIQL-(α Me-Nle)-HQ-Har-A-Har-(α Me-2FPhe)-(α Me-APPA);

Aib-V-Aib-EIQL-(α Me-M)-HQ-Har-A-Har-(α Me-Trp)-(APPA);

Aib-V-Aib-EIQL-(α Me-Nle)-HQ-Har-A-Har-(α Me-Trp)-(APPA);

(AC₃C)-V-Aib-EIQL-(α Me-M)-HQ-Har-A-Har-(α Me-Trp)-(APPA);

(AC₃C)-V-Aib-EIQL-(α Me-Nle)-HQ-Har-A-Har-(α Me-Trp)-(APPA);

(AC₅C)-V-Aib-EIQL-(α Me-M)-HQ-Har-A-Har-(α Me-Trp)-(APPA);

(AC₅C)-V-Aib-EIQL-(α Me-Nle)-HQ-Har-A-Har-(α Me-Trp)-(APPA);

Aib-V-Aib-EIQL-(α Me-M)-HQ-Har-A-Har-(α Me-Trp)-(α Me-APPA);

Aib-V-Aib-EIQL-(α Me-Nle)-HQ-Har-A-Har-(α Me-Trp)-(α Me-APPA);

V-(AC₃C)-V-Aib-EIQL-(α Me-M)-HQ-Har-A-Har-(α Me-Trp)-(α Me-APPA);

V-(AC₃C)-V-Aib-EIQL-(α Me-Nle)-HQ-Har-A-Har-(α Me-Trp)-(α Me-APPA);

V-(AC₅C)-V-Aib-EIQL-(α Me-M)-HQ-Har-A-Har-(α Me-Trp)-(α Me-APPA);

V-(AC₅C)-V-Aib-EIQL-(α Me-Nle)-HQ-Har-A-Har-(α Me-Trp)-(α Me-APPA);

(α Me-V)-(AC₅C)-V-Aib-EIQL-(α Me-M)-HQ-Har-A-Har-(α Me-Trp)-(α Me-APPA);

(α Me-V)-(AC₅C)-V-Aib-EIQL-(α Me-Nle)-HQ-Har-A-Har-(α Me-Trp)-(α Me-APPA).

청구항 18

PTH-1 수용체의 작용물질로서 작용하는, 골다공증의 진행 또는 발현을 지연시키거나 치료하기 위한, 제1항 내지 제14항, 제16항 및 제17항 중 어느 한 항에 따른 화학식 1 의 화합물 및 약제학적으로 허용되는 부형제를 포함하는 약제학적 조성물.

청구항 19

PTH-1 수용체의 작용물질로서 작용하는, 초기 골다공증, 내분비성 골다공증(endocrine osteoporosis), 폐경후 골다공증, 유전적이고 선천적인 형태의 골다공증의 진행 또는 발현을 지연시키거나 치료하기 위한, 제1항 내지 제14항, 제16항 및 제17항 중 어느 한 항에 따른 화학식 1 의 화합물.

청구항 20

제1항 내지 제14항, 제16항 및 제17항 중 어느 한 항에 따른 화학식 1 의 화합물을 인간을 제외한 이를 필요로 하는 피검자에게 독성을 나타내지 않는 유효량으로 투여하는 것을 포함하는, 초기 골다공증, 내분비성 골다공증, 유전적이고 선천적인 형태의 골다공증, 부동화(immobilization), 만성 폐쇄성 폐질환(chronic obstructive pulmonary disease) 또는 류마티스성 질환에 의한 골다공증, 골수염 또는 뼈 손실의 합병증을 유발하는 뼈에서의 전염성 병변(infectious lesion in bone)에 의해 발생된 질병의 예방 및 치료방법.

청구항 21

제1항 내지 제14항, 제16항 및 제17항 중 어느 한 항에 따른 화학식 1 의 화합물 및 약제학적으로 허용되는 담체, 희석제, 부형제를 인간을 제외한 이를 필요로 하는 피검자에게 투여하는 것을 포함하는, 초기 골다공증, 내분비성 골다공증, 유전적이고 선천적인 형태의 골다공증, 부동화, 만성 폐쇄성 폐질환 또는 류마티스성 질환에 의한 골다공증, 골수염 또는 뼈 손실의 합병증을 유발하는 뼈에서의 전염성 병변에 의해 발생된 질병을 치료하거나 감소시키기 위한 의약.

청구항 22

삭제

청구항 23

PTH-1 수용체의 작용물질로서 작용하는, 초기 골다공증, 내분비성 골다공증, 폐경후 골다공증, 유전적이고 선천적인 형태의 골다공증의 진행 또는 발현을 지연시키거나 치료하기 위한, 제1항 내지 제14항, 제16항 및 제17항 중 어느 한 항에 따른 화학식 1 의 화합물 및 약제학적으로 허용되는 부형제를 포함하는 약제학적 조성물.

명세서

기술분야

[0001] 본 발명은 일반적인 화학식 1 의 PTH 수용체 작용물질로서의 신규한 단쇄 펩티드, 이의 약제학적으로 허용되는 염 및 이를 포함하는 약제학적 조성물에 관한 것이다.

[0002] 화학식 1

[0003] A-Z₁-Z₂-Z₃-Z₄-Z₅-Z₆-Z₇-Z₈-Z₉-Z₁₀-Z₁₁-Z₁₂-Z₁₃-Z₁₄-Z₁₅-B

[0004] 본 발명은 또한 일반적인 화학식 1 의 화합물, 이의 약제학적으로 허용되는 염 및 이를 포함하는 약제학적 조성물을 제조하는 방법에 관한 것이다.

배경기술

[0005] 골다공증은 골량(bone mass), 골밀도(bone mineral density : BMD), 골강도(bone strength)의 감소에 의해 특징지어지거나 골절의 위험성을 증가시키는 것과 연관된 골격 질환이다.(Lane J. M. 등의, Clin. Orthop. Relat.

Res., 372, 2000, 139-150). 대부분의 골다공증성 골절은 척추골, 고관절 또는 대퇴골에서 발생한다. 이러한 골절은 통증, 지속적인 부동 상태(long-lasting immobility)와 저조한 회복력 때문에 삶의 질을 심하게 손상시킨다. 골(bone)은 몇몇의 상이한 세포 유형을 포함한다. 조골세포(골 형성)는 세포 주위의 세포의 환경에 존재하는 미네랄로부터 새로운 골을 형성한다. 파골세포(osteoclast)(골 손실)는 세포의 매트릭스로 골 내에 구성된 미네랄을 방출하여 오래된 골을 제거한다. 충분한 새로운 골을 형성하는 것과 오래된 골을 제거하는 것 사이의 균형은 골에게 아주 유익한 특성을 주는 작용이다. 골다공증은 골을 형성하는 비율보다 골을 재흡수하는 비율이 클 때 발생한다(Seeman E. 등의, N. Engl. J. Med., 354(21), 2006, 2250-2261). 에스트로겐이 파골세포 수명을 변화시키기 때문에, 폐경 후 에스트로겐 결핍증은 여성에게 있어서 골다공증의 가장 일반적인 원인이다. 골다공증 진행에 있어서의 그 밖의 주요한 위험 요인은 저 칼슘 섭취, 비타민 D 결핍증, 제 1 형 당뇨병(type-1 diabetes), 류마티스 관절염, 항경련제 및 코르티코스테로이드류와 같은 양의 장기간 복용, 남성에게 있어서의 낮은 테스토스테론 농도를 포함한다(Cole Z. A. 등의 Curr. Rheumatol. Rep., 10(2), 2008, 92-96; Harvey, N. 등의, Curr. Rheumatol. Rep., 5(1), 2003, 75-81).

[0006] 골다공증을 가진 환자는 골절 회복을 촉진시키는 새로운 치료 또는 이러한 질병과 연관된 골절을 예방하거나 줄이는 치료로부터 이익을 볼 수 있다(Lindsay R., Lancet, 341(8848), 1993, 801-805). 현재는 에스트로겐, 랄록시펜(raloxifene)(에스트로겐 수용체 조절인자), 칼시토닌 및 비스포스포네이트(bisphosphonates)(에티드로네이트, 알렌드로네이트 및 리세드로네이트)가 이들의 골 재흡수 작용을 감소시킴으로써 이러한 질병의 치료에 다양한 수준의 성공률로 이러한 질병의 치료에 사용되고 있지만, 현재는 골다공증에 대한 효과적인 치유법은 없다(Recker R. R., J. Clin. Endocrinol. Metab., 1993, 76(1), 14-16).

[0007] 천연의 인체(human) 부갑상선 호르몬(PTH)는 골과 신장에서 직접적인 작용을 통해서 인체에서 칼슘 항상성(calcium homeostasis)의 가장 주요한 조절인자로서 작용하는 84 아미노산 폴리펩티드이다(Kronenberg H. M., Bringham F. R., Nussbaum S. R., Juppner H., Abou-Samra A. B., In Handbook of Experimental Pharmacology, Mundy, G. R., and Martin, T. J., (eds), pp. 185-201, Springer-Verlag, Heidelberg (1993)). 갑상선으로부터 PTH 합성 및 방출은 혈청에서 주로 칼슘 농도를 조절한다 ; 낮은 농도에서는 호르몬의 합성과 방출을 자극하고 높은 농도에서는 호르몬의 합성과 방출을 억제한다. 결과적으로 PTH 는 혈액 내로 칼슘의 진입을 직접적으로 또는 간접적으로 촉진하여서 혈청에서의 칼슘 농도를 유지한다. PTH 는 비타민 D 의 활성화 형태를 신장에서 합성하여 위장에서의 칼슘의 흡수에 기여한다. PTH 는 파골세포(골 재흡수 세포)의 분화를 간접적으로 자극하여서 골로부터 칼슘의 재흡수를 촉진시킨다. 비경구경로를 통한 PTH 의 투여는 골밀도(BMD), 골강도를 유효하게 증가시키고, 골다공증 환자에게 새로운 골다공증 골절의 발생을 감소시킨다(Greenspan S. L. 등의, Ann. Intern. Med., 146(5), 2007, 326-339; Neer R. M., et al., N. Engl. J. Med., 344, 2001, 1434-1441).

[0008] PTH 는 수많은 조직, 가장 풍부하게 신장, 골 및 성장판 연골흡수세포에서 발현된 세포 표면 PTH 수용체와 이의 상호작용을 통하여 주로 이러한 모든 영향을 준다(Lanske B., et al., Crit. Rev. Eukaryot. Gene Expr., 8, 1998, 297-320). PTH 수용체는 세크레틴, 칼시토닌 및 글루카곤과 같은 펩티드 호르몬에 결합하는 수많은 다른 수용체와 일차구조와 유사하다 ; 이러한 수용체는 동시에 G-단백질 연결 수용체(G-protein coupled receptors : GPCR) 패밀리의 B(family B) 라고 명명된 별개의 패밀리를 형성한다(Kolakowski L. F., Receptor Channels, 2, 1994, 1-7). GPCR 은 C-터미널 말단(C-terminal tail) 및 루프 사이에 오는 세븐 멤브레인-스패닝 α -헬릭스(seven membrane-spanning α -helices)의 막근접 도메인(juxtamembrane domain)(J-domain)에 연결되어 있는 100-160 잔기의 세포의 N-터미널 도메인을 포함한다(Donnelly D., FEBS Letts., 409, 1997, 431-436). 클래스 B(Class B) GPCRs 는 일반적으로 30-40 개의 아미노산인 중간 크기의 내인성 펩티드 리간드(endogenous peptide ligands)에 의해 활성화 된다(Hoare, S. R. J., Drug. Discovery Today, 10, 2005, 423-427). 클래스 B GPCRs 와 상호작용하는 펩티드 리간드의 일반적인 메커니즘은 알려졌고 흔히 '두 개의 도메인 모델(two-domain model)'라고 명명된다. 펩티드의 C-터미널 부분은 수용체의 N-도메인에 결합하고, 수용체에 리간드의 결합을 확인하고 N-터미널 리간드 영역은 J-도메인에 결합하고 이러한 상호작용은 수용체를 활성화시키고 세포내 신호전달(intracellular signaling)을 자극한다(Ji T. H., 등의, J. Biol. Chem., 273, 1998, 17299-17302; Hjorth, S. A. 등의, Regulatory Peptides, 64, 1996, 70).

[0009] PTH 는 nM 범위에서 친화력을 갖는 PTH 수용체에 결합한다 ; 리간드-결합 수용체(ligand-occupied receptor)는 이종삼합체(heterotrimeric) GTP-결합 단백질(G 단백질)을 매개자로 포함하는 매커니즘을 통해서 세포내 작동체 효소(effector enzyme)에 세포막을 가로질러 신호를 전달한다. PTH 펩티드에 반응하여 PTH 수용체에 의해 활성화된 일차 세포내 작용체 효소는 아데닐시클라아제(adenylyl cyclase : AC)이다(Goltzman D., J. Bone Miner. Res., 15(3), 2000, 605-608). 따라서 PTH 는 골의 재형성(bone remodeling)에 관여하는 저조하게 특징지어진 다운스트림 세포내 과정(downstream cellular processes)을 조절하는, 두번째 전달자로서 고리형 아데노신 모노포스페이트(cyclic adenosine monophosphate : cAMP)가 증가되도록 유도한다(Juppner H., et al., Science, 254, 1991, 1024-1026). 세포내 칼슘, 단백질 키나아제 C 의 포스포리파아제 C-의존적이고 독립적인 활성을 증가시키는 것과 같은 이러한 수용체의 또 다른 신호전달 과정은 기재되어 있다. PTH 가 혈액에서 칼슘 및 인산염 농도를 조절하고, 강력한 동화작용(골-형성) 효과를 나타내기 때문에, 부갑상선 호르몬 및 이의 유도체는 골다공증의 치료에 잠재적인 치료제로서 제시되고 있다(Slovik D. M. 등의, J. Bone Miner. Res., 1, 1986, 377-381; Dempster D. W. 등의 Endocr. Rev., 14, 1993, 690-709).

[0010] 합성한 PTH(1-34)는 대부분의 세포-기반 검정 시스템(cell-based assay systems)에서 완전한 생체활성(bioactivity)을 나타내고, 동물의 골밀도에서 강한 동화작용을 가지고, 최근에는 폐경후 골다공증 여성에 있어서의 골절의 위험을 감소시키는 것으로 나타나고 있다. 폐경후 여성에서의 인체실험에서, 저 농도의 PTH(1-34)를 매일 피하 주사한 결과, 척추 골절의 정도를 현저하게 감소시키면서 척추 및 대퇴골 경부에서의 인상적인 골 형성의 결과를 나타내었다(Neer R. M. 등의, N. Engl. J. Med., 344, 2001, 1434-1441; Dempster D. W. 등의, Endocr. Rev., 14, 1993, 690-709). 이러한 임상적 데이터는 골다공증에 대해서 실험한 가장 효과적인 인자 중의 하나가 PTH 임을 나타낸다. 상표명 Forteo(Eli Lilly)라는 이름으로 테리파라티드 아세테이트(teriparatide acetate) 형태의 PTH(1-34)는 골다공증의 치료제로 승인되었다.

[0011]

[0012] PTH 유도체는 아미노산 치환체를 갖는 폴리펩티드를 포함하고, 완전한-길이의 분자(full-length molecule)에 비하여 길이가 줄었다. PTH(1-34)의 N과 C-터미널 둘다 절단된 형태는 연구되고 있다. 게다가 절단된 폴리펩티드 내에서의 아미노산 치환체는 또한 연구되고 있다(Azurani A., 등의, J. Biol. Chem., 271, 1996, 14931-14936). PTH 펩티드의 15-34 도메인에서의 잔기는 수용체 결합 친화력에 중요하게 기여하는 반면에, PTH 펩티드의 N-터미널 1-14 아미노산은 수용체의 활성화에 기여하는 것으로 알려졌다(Naussbaum S. R. 등의, J. Biol. Chem., 255, 1980, 10183-10187; Gardella T. J., 등의, Endocrinology, 132, 1993, 2024-2030; Takasu H., 등의, Biochemistry, 38, 1999, 13453-13460; Hoare S. R. J., 등의, J. Biol. Chem., 276, 2001, 7741-7753; Luck M. D., 등의, Molecular Endocrinology, 13, 1999, 670-680). 고리화(cyclised) PTH(1-17), PTH(1-28) 및 PTH(1-31)와 같은 절단된 PTH(1-34) 유도체는 대부분 검정 시스템에서 유효하고 골 형성을 증진시킨다(Whitfield J. F. 등의, J. Bone Miner. Res., 12, 1997, 1246-1252; WO 2007 / 130113 A2; WO 2008 / 068487; Whitefield J. F. 등의, Calcif. Tissue Int., 56, 1995, 227-231; Rixon R. H. 등의, J. Bone Miner. Res., 9, 1994, 1179-1189; Whitfield J. F. 등의, Trends Pharmacol. Sci., 16, 1995, 372-386; Whitfield J. F. 등의, Calcif. Tissue Int., 58, 1996, 81-87). 그러나 이러한 펩티드는 효율적으로 경구 투여하기에서 여전히 너무 크다. 보다 작은 PTH 작용물질의 발견은 골다공증에 대한 새로운 치료를 발전시킬 수 있는 중요한 진전이 될 것이다.

[0013]

[0014] 불행히도 PTH 펩티드의 큰 분자량으로 인하여 PTH 펩티드의 합성도 기술적으로 어렵고 따라서 비용도 많이 들어서 오직 가능한 투여 방법은 주사 경로(injection route)이기 때문에 PTH 펩티드의 치료상의 적용은 한정되어 있다. 게다가 PTH 는 프로테아제 공격에 매우 민감하여서, 이의 낮은 안정성 때문에 저온에서 저장해야 한다. 이러한 기술적인 한계뿐만 아니라, 독성데이터에서 나타나는 칼슘의 일시적인 부동화 및 고칼슘혈증으로 내약성(tolerability)이 제한되고, 특히 발암연구에서의 바람직하지 못한 결과(투여 및 치료의 기간에 따른 골육종의 위험의 증가)는 PTH(1-34)의 신중한 사용을 유도한다(Vahle J. L., Toxicol. Pathos., 32(4), 2004, 426-438; Whitfield J. F., Medscape Womens Health, 6(5), 2001, 7; Kuipers G., BMJ, 324(7335), 2002, 435-436). 반면에, 예를 들어 PTH 의 처음 14 개의 아미노산 PTH(1-14) 및 11개의 아미노산 PTH(1-11)으로 구성된 이러한 저분자량 펩티드는 동물 모델에서 불활성이거나 매우 낮은 생물학적 활성을 나타냄이 입증되었다(Tregear G. W.

등의, Endocrinology, 93, 1973, 1349-1353; Gardella T. J. 등의, J. Biol. Chem., 266, 1991, 13141-13146).

[0015]

[0016]

따라서, 지난 10년 동안 개선된 생물학적 프로파일(profile), 바람직하게 경구적으로 생체이용가능하고 프로테아제 저항성 있고 합성하기 쉽고 보다 높은 안전성 지표(safety index)를 갖는 PTH-유도된 저분자량 펩티드의 개발에 연구가 집중되고 있다. 최근에, 특정 부위에서의 나선 구조를 안정화시킨 비천연 아미노산을 도입함으로써 저분자량 펩티드의 활성도가 개선될 수 있음을 발견하였다. 예를 들어서 PTH(1-11) 유사체([Ala₃, Gln₁₀, Arg₁₁]-PTH(1-11), [Ala₃, Gln₁₀, Har₁₁]-PTH(1-11) 및 [Aib_{1,3}; Gln₁₀; Har₁₁]-PTH(1-11)) 및 [AC₅C₁, Aib₃, Gln₁₀, Har₁₁, Ala₁₂, Trp₁₄]-PTH(1-14)과 같은 PTH(1-14) 유사체는 nM 범위에서 cAMP 를 활성화시킨다(WO 03/009804; WO 04/093902). PTH-유사 활성도를 갖는 저분자량 펩티드를 발견하기 위해 몇몇 실험들이 진행되고 있었다(Reidhaar-olson J. F.등의, Mol. Cell. Endocrinology., 160, 2000, 135-147; Shimizu M. 등의, J. Biol. Chem., 275, 2000, 21836-21843; Shimizu M. 등의, Endocrinology, 142, 2001, 3068-3074; Shimizu N.등의., J. Biol. Chem., 276, 2001, 49003-49012; WO 03/009804). 11 개 정도의 아미노산으로 구성된 짧은 유사체(처음 1-11 잔기의 PTH 펩티드 유사체, Seq. ID NO. 2)가 비록 (생체 외에서) 낮은 효력으로 PTH 수용체를 활성화시킬 수 있으나(WO 04/067021), 동물 모델(생체 내)에서 이러한 유사체의 골-동화작용(bone-anabolic activity)은 보고된 바 없다. 결론적으로, (생체 외에서) PTH 수용체의 cAMP-신호전달 경로(cAMP-signalling pathway)에서의 작용물질 활성도만으로는 생체 내에서 골-동화작용을 모두 예측할 수는 없다.

[0017]

최근 연구에서, 비천연 아미노산을 갖는 N-터미널 서열(처음 1-14 또는 1-15 잔기, Seq ID. No. 3 및 4)의 PTH(1-34) 펩티드의 상동하는 치환체(유도체)가 다양한 정도의 분포도에서 강한 PTH 수용체 효능적 활성(agonistic activity), 보다 특이적으로 PTH-1 수용체 효능적 활성을 갖는 신규한 클래스의 단쇄 펩티드를 발견하는 결과를 가져옴을 우리는 놀랍게도 발견하게 되었다. 단백질 분해효소에 대하여 작용과 안정성의 지속을 증진시키기 위해서, 우리는 비천연 아미노산을 갖는 부위-특이적으로 변형된 단쇄 펩티드(site-specifically modified the short-chain peptides)를 획득하였고 대사적으로 안정화되고 매우 효능이 강한 단쇄 펩티드를 식별하는데 성공하였다. 몇몇의 단쇄 펩티드는 경구 투여에서도 PTH-1 수용체 효능적 활성을 유지하면서 생물학적 이용도(bioavailability)를 나타내었다.

[0018]

다음에 나타낸 PTH(1-34) 서열 배열은 1차 구조상의 관계를 나타낸다 ;

[0019]

PTH (1-34): ¹SVSEIQLMHNLGKH¹⁴ LNSMERVEWLRKKLQDVHNF³⁴ (Seq. ID No: 1) ;

[0020]

PTH (1-11): ¹SVSEIQLMHNL¹¹ (Seq. ID No: 2) ;

[0021]

PTH (1-14): ¹SVSEIQLMHNLGKH¹⁴ (Seq. ID No: 3) ;

[0022]

PTH (1-15): ¹SVSEIQLMHNLGKHL¹⁵ (Seq. ID No: 4).

[0023]

아미노산에 대한 단일문자 약자는 Zubay, G., Biochemistry 2nd ed., 1988, MacMillan Publishing, New York, p. 33 에서 찾을 수 있다.

[0024]

선행기술

[0025]

형태적으로 강요된 부갑상선 호르몬 펩티드(PTH) 유사체 및 유도체의 시리즈(series)는 일반적인 화학식 Xaa1-Xaa11 및/또는 Xaa1-Xaa14 로 알려졌다 ; 여기에서 몇몇 유사체와 함께 Xaa1-Xaa11 및/또는 Xaa1-Xaa14 는 PTH 펩티드의 처음 1-11 및/또는 1-14 N-터미널 잔기를 나타내고, Xaa1 및 Xaa3 는 Aib 또는 AC₅C를 나타내고, Xaa8 은 Nle 를 나타내고 ; Xaa10 은 Q 를 나타내고, Xaa11 은 Har 를 나타내고, Xaa12 는 Ala를 나타내며 Xaa14는 W를 나타낸다(WO 03 / 009804 A2; US 2006 / 7153951 B2; US 2007 / 0117157 A1; US 2007 /

0203071 A1; US 2006 / 0019902 A1; US 2007 / 0161569 A1; US 2007 / 0111946 A1; Gardella T. J. 등의, J. Biol. Chem. 2000, 275, 21836-21843; Gardella T. J. 등의, Endocrinology, 2001, 142, 3068-3074; Gardella T. J. 등의, J. Biol. Chem., 2001, 52, 49003-49012). 최근에 몇몇 비-펩티드 PTH 작용물질은 문헌에 또한 보고된 바가 있으나, 이들 중 어디에서도 생체 내 동물 모델에서의 잠재적인 가능성을 갖는 것으로 발견된 것은 없었다(US 2007 / 0099940 A1; WO 2005 / 077918 A1).

발명의 내용

[0026] 발명의 요약

[0027] 본 발명은 PTH/PTH-1 수용체에 대해서 상이한 정도의 친화력을 갖고 골다공증 치료에 유용한, PTH 수용체의 작용물질로서 기능하는 신규한 단쇄 펩티드 그룹(group)에 관한 것이다. 이러한 단쇄 펩티드는 하기한 바와 같이 일반적인 화학식 1 에 나타내었다. 본 발명의 단쇄 펩티드는 부갑상선 기능 저하증, 및 골다공증, 폐경후 골다공증과 같은 골밀도 감소 또는 골 손실에 의해 특징지어지는 질병의 치료 또는 예방에 유용하고 골 회복(bone repair)에 유용하다.

[0028] 본 발명은 주로 PTH/PTH-1 수용체 작용물질로서 작용하는 화학식 1 의 신규한 단쇄 펩티드를 제공한다. 이러한 단쇄 펩티드는 단백질 분해 효소에 대항하는 증가된 대사 안정성을 나타낸다. 대부분의 단쇄 펩티드는 (생체 외에서) 24 시간까지 랫 혈장에서 안정적이고, (생체 외에서) 펩신 및 산성의 위(stomach) pH 와 같은 GIT 효소 및 또한 간 마이크로솜(liver microsomes)에 대한 증가된 안정성을 나타내었다. 비경구 투여 외에 증가된 대사 안정성(metabolic stability) 때문에, 이러한 단쇄 펩티드 중 몇몇을 또한 경구투여로 전달할 수 있다.

[0030] 바람직한 실시형태

[0031] 본 발명의 바람직한 실시형태는 골 장애의 치료/경감/조절하기에 적절한, 일반적인 화학식 1 의 신규한 단쇄 펩티드, 이들의 합성과 관련된 신규한 매개자, 이들의 약제학적으로 허용되는 염 및 이들 또는 이들의 혼합물을 포함하는 약제학적 조성물에 관한 것이다.

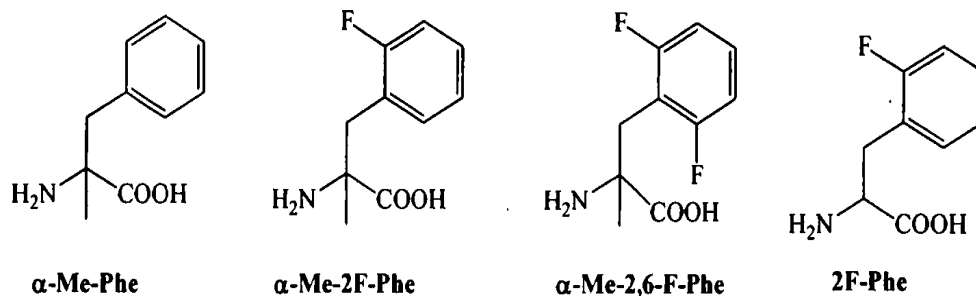
[0032] 보다 바람직한 실시형태에서, 본 발명은 일반적인 화학식 1 의 단쇄 펩티드, 이의 약제학적으로 허용되는 염, 용매화합물 및 약제학적으로 허용되는 담체, 용매화합물, 희석제, 부형제 및 이들의 제조과정에서 일반적으로 사용되는 그밖의 매체(media)를 갖는 이들 혼합물을 함유하는 약제학적 조성물을 제공한다.

[0033] 보다 추가적으로 바람직한 실시형태에서, 본 발명은 화학식 1 의 단쇄 펩티드 또는 이들의 약제학적으로 허용되는 조성물을 이러한 치료를 필요로 하는 포유동물에게 독성을 나타내지 않는 약제학적으로 유효량을 투여하여, 골다공증 및 연관된 골 장애를 치료 및/또는 예방하고 새로운 골 형성을 촉진하는 제제로서의 본 발명의 신규한 단쇄 펩티드의 용도를 제공한다.

[0035] 본 발명의 상세한 설명

[0036] 본 발명에 따라, PTH-1 수용체 효능적 활성을 나타내는, 구조적인 화학식 1 을 갖는 합성된 단쇄 펩티드를 나타내었다. 대부분의 단쇄 펩티드는 (생체 외에서) 24시간까지 랫 혈장에서 안정적이고, (생체 외에서) 펩신 및 산성의 위(stomach) pH 와 같은 GIT 효소 및 또한 간 마이크로솜(liver microsomes)에 대한 증가된 안정성을 나타냄을 발견함으로써 이러한 단쇄 펩티드는 단백질 분해(proteolytic cleavage)에 대한 증가된 대사 안정성을 나타낸다. 대사 안정성의 증가로 인하여 이러한 단쇄 펩티드의 몇몇은 부갑상선 기능 저하증, 골다공증, 폐경후 골다공증과 같은 골량 감소로 특징지어지는 질병의 치료/예방 및 골 회복의 촉진을 위해, 경구 투여로 또한 전달될 수 있다.

- [0037] 따라서, 본 발명은 다음의 화학식 1 을 갖는 PTH 수용체 작용물질로서의 신규한 단쇄 펩티드를 나타낸다 ;
- [0038]
- [0039] 화학식 1
- [0040] $A-Z_1-Z_2-Z_3-Z_4-Z_5-Z_6-Z_7-Z_8-Z_9-Z_{10}-Z_{11}-Z_{12}-Z_{13}-Z_{14}-Z_{15}-B$
- [0041] 여기에서,
- [0042] A 는 $-NH-R_1$ 또는 $R_3-CO-NH-$ 기를 나타내고
- [0043] 여기에서
- [0044] R_1 은 수소, 비오틴, 임의로 치환된 선형 또는 가지형 (C_{1-18}) 알킬 사슬, 또는 피로글루탐산(Pyr), Pro(P), 알파-메틸-프롤린(α Me-P), Val(V), N-메틸-발린(NMe-V), 알파-메틸-발린(α Me-V), Lys(비오틴), Lys(알킬), Lys(아세틸)과 같은 적절한 아미노산을 나타내고 ;
- [0045] R_3 은 임의로 치환된 선형 또는 가지형 (C_{1-18}) 알킬 사슬, (C_{1-6})알콕시, (C_3-C_6)시클로알킬, 아릴, 헤테로아릴 또는 아릴알킬기 중에서 선택한 것이다.
- [0046] 바람직한 실시형태에서, 아릴기는 페닐, 나프틸, 인다닐, 플루오레닐 또는 비페닐 기 중에서 선택한 것이고 ; 헤테로아릴기는 피리딜, 티에닐, 푸릴, 이미다졸일, 벤조푸라닐기 중에서 선택한 것이고 ; 아릴알킬기는 명세서에 기재된 바와 같이 알킬기에 아릴기를 부착한 것이다.
- [0047] B는 $-COOR_2$, $-CONHR_2$ 또는 CH_2OR_2 을 나타내고, 여기에서 R_2 는 H, 또는 Val(V), 알파-메틸-발린(α Me-V), Lys(비오틴), Lys(알킬), Lys(아세틸) 등과 같은 적절한 아미노산을 나타내고 ;
- [0048] 각각의 Z_1 , Z_3 및 Z_{12} 는 동일하거나 상이할 수 있으며, 독립적으로 Ser(S), 알파-메틸-세린(α Me-S), Val(V), 알파-메틸-발린(α Me-V), Pro(P), 알파-메틸-프롤린(α Me-P), Gly(G), Ala(A), α -아미노-이소부티르산(Aib), 1-아미노 시클로프로판 카르복실산(AC_3C), 1-아미노-시클로펜탄카르복실산(AC_5C), 1-아미노-시클로헥산카르복실산(AC_6C)을 포함하는 기 중에서 선택한 자연적으로 발생하는 아미노산 또는 자연적으로 발생하지 않은 아미노산을 나타내고 ;
- [0049] Z_2 는 Val(V) 또는 α Me-Val(α Me-V)을 나타내고 ;
- [0050] 각각의 Z_4 , Z_6 및 Z_{10} 은 동일하거나 상이할 수 있으며, 독립적으로 Glu(E), 호모글루탐산(HoGlu), 2-아미노-4-시아노부탄산(Abu(CN)), Asp(D), Asn(N), Gln(Q), Aib 을 포함하는 기 중에서 선택한 자연적으로 발생하는 아미노산 또는 자연적으로 발생하지 않은 아미노산을 나타내고 ;
- [0051] 각각의 Z_5 , Z_7 및 Z_9 은 동일하거나 상이할 수 있으며, 독립적으로 Leu(L), Ile(I), Nle(노르류신), Nva(노르발린), HoLeu(호모류신), Abu(CN), His(H), Phe(F), 하기한 바와 같은 알파-메틸-페닐알라닌($-\alpha$ -Me-Phe-), 알파-메틸-2-플루오로페닐알라닌($-\alpha$ -Me-2F-Phe-) 또는 알파-메틸-2,6-디플루로페닐알라닌($-\alpha$ -Me-2,6-F-Phe-) 또는 2-플루오로페닐알라닌($-2F-Phe-$)기를 포함하는 기 중에서 선택한 자연적으로 발생하는 아미노산 또는 자연적으로 발생하지 않은 아미노산을 나타내고 ;



[0052]

[0053]

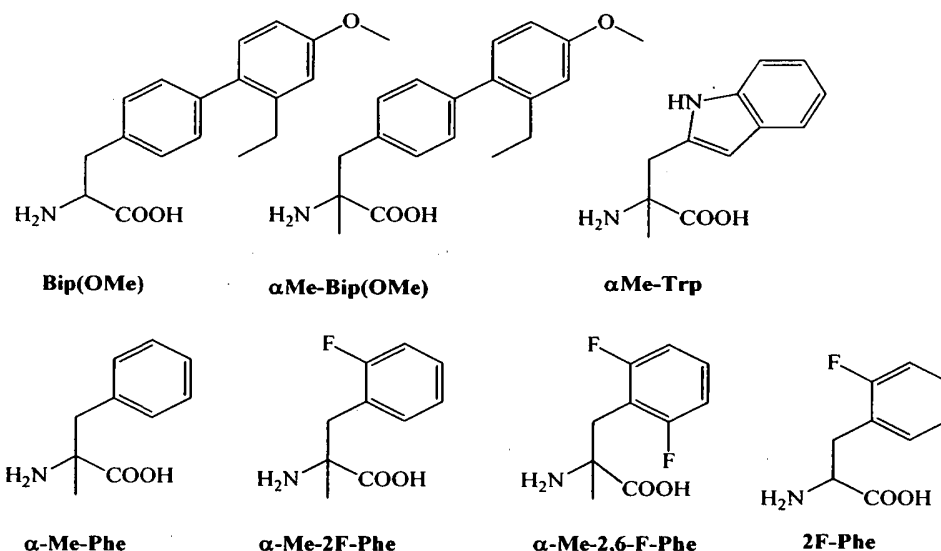
Z_8 은 Met, N-메틸-Met((NMe)M), 알파-메틸-Met(α Me-M), 알파-메틸-발린(α Me-V), Leu, Nle, N-메틸-Nle((NMe)Nle), 알파-메틸-노르류신(α Me-Nle), Nva, HoLeu, 에티오닌(EtMet), 셀레노메티오닌(SMet), Val 을 포함하는 기 중에서 선택한 자연적으로 발생하는 아미노산 또는 자연적으로 발생하지 않는 아미노산을 나타내고 ;

[0054]

Z_{11} 및 Z_{13} 은 동일하거나 상이할 수 있으며, 독립적으로 Aib, Pro(P), α Me-Pro, 리신(K), 리신-비오틴(K(비오틴)), 리신(니트로)[K(NO₂)], 아르기닌(R), 아르기닌(니트로)[Arg(NO₂)], 호모아르기닌(Har), 오르니틴(Orn), 오르니틴(니트로)[Orn(NO₂)], 시트룰린(Cit), 호모시트룰린(HoCit), Phe(F), 알파-메틸-페닐알라닌(- α -Me-Phe-), 알파-메틸-2-플루오로페닐알라닌(- α -Me-2F-Phe-) 또는 알파-메틸-2,6-디플루로페닐알라닌(- α -Me-2,6-F-Phe-) 또는 2-플루오로페닐알라닌(-2F-Phe-)을 포함하는 기 중에서 선택한 자연적으로 발생하는 아미노산 또는 자연적으로 발생하지 않는 아미노산을 나타내고 ;

[0055]

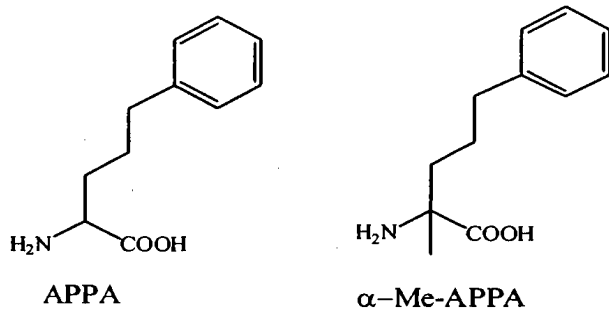
Z_{14} 는 하기한 바와 같은 2'-에틸-4'-메톡시-비페닐알라닌(Bip(OMe)), α -메틸화 Bip(OMe)[α Me-Bip(OMe)], α Me-Trp, 알파-메틸-페닐알라닌(- α -Me-Phe-), 알파-메틸-2-플루오로페닐알라닌(- α -Me-2F-Phe-), 알파-메틸-2,6-디플루로페닐알라닌(- α -Me-2,6-F-Phe-) 또는 2-플루오로페닐알라닌(-2F-Phe-)을 포함하는 기 중에서 선택한 자연적으로 발생하는 아미노산 또는 자연적으로 발생하지 않는 아미노산을 나타내며 ;



[0056]

[0057]

Z_{15} 는 존재하거나 존재하지 않는다. Z_{15} 가 존재할 때 2-아미노-5-페닐발레르산(APPA) 또는 2-아미노-2-메틸-5-페닐발레르산(α -Me-APPA)을 포함하는 기 중에서 선택한 자연적으로 발생하는 아미노산 또는 자연적으로 발생하지 않는 아미노산을 나타낸다 ;



[0058]

[0059]

[0060]

본 발명의 실시형태에 있어서, 본 발명은 하기한 화학식 1의 변형된 PTH 유사체를 제공한다 ;
여기에서 A는 -NH-R₁ 또는 R₃-CO-NH-기를 나타내고, R₁ 은 수소, 비오틴, 또는 피로글루탐산(Pyr), Pro(P), Val(V)과 같은 적절한 아미노산을 나타내고, 모든 부호는 하기에 나타낸 바와 같다 ;

[0061]

본 발명의 또 다른 실시형태에 있어서, 본 발명은 R₃ 은 임의로 치환된 선형 또는 가지형 (C₁₋₁₈) 알킬 사슬로부터 선택한 화학식 1 의 화합물을 제공하고 모든 부호는 하기에 나타낸 바와 같다 ;

[0062]

본 발명의 또 다른 실시형태에 있어서, 본 발명은 B 가 -COOR₂, -CONHR₂ 를 나타내고, R₂ 는 H, 또는 Val(V), 알파-메틸-발린 (α Me-V), Lys(비오틴)과 같은 적절한 아미노산을 나타내는 화학식 1 의 화합물을 제공하고 모든 부호는 하기에 나타낸 바와 같다 ;

[0063]

본 발명의 또 다른 실시형태에 있어서, 본 발명은 화학식 1 의 화합물을 제공한다 ;

[0064]

각각의 Z₁, Z₃ 및 Z₁₂ 는 동일하거나 상이할 수 있으며, 독립적으로 Ala(A), α-아미노-이소부티르산(Aib), 1-아미노 시클로프로판 카르복실산(AC₃C), 1-아미노-시클로펜탄카르복실산(AC₅C), 1-아미노-시클로헥산카르복실산(AC₆C)을 포함하는 기 중에서 선택한 자연적으로 발생하는 아미노산 또는 자연적으로 발생하지 않은 아미노산을 나타내고 모든 부호는 하기에 나타낸 바와 같다.

[0065]

본 발명의 또 다른 실시형태에 있어서, 본 발명은 다음의 화학식 1의 화합물을 제공한다 ;

[0066]

Z₂ 는 Val(V)으로 구성된 기로부터 선택한 자연적으로 발생하는 아미노산 또는 자연적으로 발생하지 않은 아미노산을 나타내고 모든 부호는 하기에 나타낸 바와 같다.

[0067]

본 발명의 추가적인 실시형태에 있어서, 본 발명은 다음의 화학식 1 의 화합물을 제공한다 ;

[0068]

각각의 Z₄, Z₆ 및 Z₁₀은 동일하거나 상이할 수 있으며, 독립적으로 Glu(E), Gln(Q), Aib 을 포함하는 기 중에서 선택한 자연적으로 발생하는 아미노산 또는 자연적으로 발생하지 않는 아미노산을 나타내고, 모든 부호는 하기에 나타낸 바와 같다.

[0069]

본 발명의 또 다른 실시형태에 있어서, 본 발명은 다음의 화학식 1 의 화합물을 제공한다 ;

[0070]

각각의 Z₅, Z₇ 및 Z₉ 은 동일하거나 상이할 수 있으며, 독립적으로 Leu(L), Ile(I), Nle, HoLeu(호모류신), His(H), 알파-메틸-2-플루오로페닐알라닌(- α-Me-2F-Phe-) 또는 알파-메틸-2,6-디플루오로페닐알라닌(- α-Me-2,6-F-Phe-)을 포함하는 기 중에서 선택한 자연적으로 발생하는 아미노산 또는 자연적으로 발생하지 않는 아미노산을 나타내고 모든 부호는 하기에 나타낸 바와 같다.

을 나타내고, 모든 부호는 하기에 나타낸 바와 같다 ;

- [0071] 본 발명의 또 다른 실시형태에 있어서, 본 발명은 다음의 화학식 1 의 화합물을 제공한다 ;
- [0072] Z_8 은 Met, 알파-메틸-Met(α Me-M), Nle, N-메틸-Nle((NMe)Nle)을 포함하는 기 중에서 선택한 자연적으로 발생하는 아미노산 또는 자연적으로 발생하지 않는 아미노산을 나타내고, 모든 부호는 하기에 나타낸 바와 같다.
- [0073] 본 발명의 또 다른 실시형태에 있어서, 본 발명은 다음의 화학식 1 의 화합물을 제공한다 ;
- [0074] 각각의 Z_{11} 및 Z_{13} 은 동일하거나 상이할 수 있으며, 독립적으로 Aib, α Me-Pro, 리신(K), 리신-비오틴(K(비오틴)), K(NO₂), 아르기닌(R), Arg(NO₂), 호모아르기닌(Har), 오르니틴(Orn), Orn(NO₂), 시트룰린(Cit), 호모시트룰린(HoCit), 알파-메틸-2-플루오로페닐알라닌(- α -Me-2F-Phe-), 알파-메틸-2,6-디플루오로페닐알라닌(- α -Me-2,6-F-Phe-)을 포함하는 기 중에서 선택한 자연적으로 발생하는 아미노산 또는 자연적으로 발생하지 않는 아미노산을 나타내고, 모든 부호는 하기에 나타낸 바와 같다.
- [0075] 본 발명의 또 다른 실시형태에 있어서, 본 발명은 다음의 화학식 1 의 화합물을 제공한다 ;
- [0076] Z_{14} 는 2'-에틸-4'-메톡시-비페닐알라닌(Bip(OMe)), α -메틸화 Bip(OMe)[α Me-Bip(OMe)], 알파-메틸-2-플루오로페닐알라닌(- α -Me-2F-Phe-), 알파-메틸-2,6-디플루오로페닐알라닌(- α -Me-2,6-F-Phe-)을 포함하는 기 중에서 선택한 자연적으로 발생하는 아미노산 또는 자연적으로 발생하지 않는 아미노산을 나타내고, 모든 부호는 하기에 나타낸 바와 같다 ;
- [0077] 본 발명의 또 다른 실시형태에 있어서, 본 발명은 다음의 화학식 1 의 화합물을 제공한다 ;
- [0078] Z_{15} 는 존재하고, 2-아미노-5-페닐발레르산(APPA) 또는 2-아미노-2-메틸-5-페닐발레르산(α -Me-APPA)을 포함하는 기 중에서 선택한 자연적으로 발생하는 아미노산 또는 자연적으로 발생하지 않는 아미노산을 나타낸다.
- [0079] 바람직한 실시형태에 있어서, 본 발명은 다음의 화학식 1 의 변형된 PTH 유사체를 나타낸다 ;
- [0080] A 는 -NH-R₁ 또는 R₃-CO-NH-기를 나타내고, 여기에서 R₁ 은 수소, 비오틴, 피로글루탐산(Pyr), Pro(P), Val(V)과 같은 적절한 아미노산을 나타내고 ; R₃ 은 임의로 치환된 선형 또는 가지형(C₁₋₁₈) 알킬 사슬로부터 선택한 것이고 ; B는 -COOR₂, -CONHR₂를 나타내고, 여기에서 R₂ 는 상기에 나타낸 바와 같고 ; 각각의 Z_1 , Z_3 및 Z_{12} 는 동일하거나 상이할 수 있으며, 독립적으로 Ala(A), α -아미노-이소부티르산(Aib), 1-아미노 시클로프로판 카르복실산(AC₃C), 1-아미노-시클로펜탄카르복실산(AC₅C), 1-아미노-시클로헥산카르복실산(AC₆C)을 포함하는 기 중에서 선택한 자연적으로 발생하는 아미노산 또는 자연적으로 발생하지 않는 아미노산을 나타내고 ; Z_2 는 Val(V)을 나타내고 ; 각각의 Z_4 , Z_6 및 Z_{10} 은 동일하거나 상이할 수 있으며, 독립적으로 Glu(E), Gln(Q), Aib 을 포함하는 기 중에서 선택한 자연적으로 발생하는 아미노산 또는 자연적으로 발생하지 않는 아미노산을 나타내고 ; Z_5 , Z_7 및 Z_9 은 동일하거나 상이할 수 있으며, 독립적으로 Leu(L), Ile(I), Nle, HoLeu(호모류신), His(H), 알파-메틸-2-플루오로페닐알라닌(- α -Me-2F-Phe-), 알파-메틸-2,6-디플루오로페닐알라닌(- α -Me-2,6-F-Phe-)을 포함하는 기 중에서 선택한 자연적으로 발생하는 아미노산 또는 자연적으로 발생하지 않는 아미노산을 나타내고 ; Z_8 은 Met, 알파-메틸-Met(α Me-M), Nle, N-메틸-Nle((NMe)Nle)을 포함하는 기 중에서 선택한 자연적으로 발생하는 아미노산 또는 자연적으로 발생하지 않는 아미노산을 나타내고 ; Z_{11} 및 Z_{13} 은 동일하거나 상이할 수 있으며, 독립적으로 Aib, α Me-Pro, 리신(K), 리신-비오틴(K(비오틴)), K(NO₂), 아르기닌(R), Arg(NO₂), 호모아르기닌(Har), 오르니틴(Orn), Orn(NO₂), 시트룰린(Cit), 호모시트룰린(HoCit), 알파-메틸-2-플루오로페닐알라닌(- α -Me-2F-Phe-), 알파-메틸-2,6-디플루오로페닐알라닌(- α -Me-2,6-F-Phe-)을 포함하는 기 중에서 선택한 자연적으로

발생하는 아미노산 또는 자연적으로 발생하지 않는 아미노산을 나타내고 ; Z_{14} 는 2'-에틸-4'-메톡시-비페닐알라닌(Bip(OMe)), α -메틸화 Bip(OMe)[α -Me-Bip(OMe)], 알파-메틸-2-플루오로페닐알라닌($-\alpha$ -Me-2F-Phe-), 알파-메틸-2,6-디플루오로페닐알라닌($-\alpha$ -Me-2,6-F-Phe-)을 포함하는 기 중에서 선택한 자연적으로 발생하는 아미노산 또는 자연적으로 발생하지 않는 아미노산을 나타내며 ; Z_{15} 가 존재할 때, Z_{15} 는 2-아미노-5-페닐발레르산(APPA) 또는 2-아미노-2-메틸-5-페닐발레르산(α -Me-APPA)을 포함하는 기 중에서 선택한 자연적으로 발생하는 아미노산 또는 자연적으로 발생하지 않는 아미노산을 나타낸다.

[0081] 상기에 나타난 기 중에서 치환기는 히드록시, 옥소, 할로, 티오(thio), 니트로, 아미노, 알킬, 알콕시, 할로알킬 또는 할로알콕시기 중에서 선택한 것이다.

[0082] 용어 '천연 아미노산(natural amino acid)' 은 자연에 존재하는 모든 20 가지 아미노산을 나타낸다.

[0083] 용어 '비천연 아미노산(unnatural amino acid 또는 non-natural amino acid 아미노산)'은 바람직하게 L-Ala 가 D-Ala 로 교체되는 것과 같이 L-아미노산이 이에 상응하는 D-아미노산으로 교체되거나, 다음의 a 또는 b 에 의한 L 또는 D 아미노산, 아미노 알킬 산(amino alkyl acids)의 적절한 변형물을 나타낸다 ;

[0084] a) Ala 이 α -메틸 Ala(Aib)로 치환되거나, Met가 α -메틸 Met 로 교체되는 것과 같은 α -알킬화 반응 ; 또는

[0085] b) 할로젠, (C_1 - C_3)알킬, 아릴기를 갖는 방향족 아미노산 결사슬로 치환되거나, 보다 특이적으로 Phe이 할로 Phe(halo Phe)로 교체되는 것과 같이 아미노산의 잔기의 치환.

[0086] 본원의 명세서에 기재된 다양한 기, 라디칼 및 치환기는 다음의 단락에 기재하였다.

[0087] 본원에서 기재된, 단독으로 또는 다른 라디칼과 결합된 용어 '알킬' 은 메틸, 에틸, n-프로필, 이소-프로필, n-부틸, sec-부틸, tert-부틸, 아밀, t-아밀, n-헥실, n-헥실, iso-헥실, 헵틸, 옥틸, 데실, 테트라데실, 옥타데실 등과 같은 1 내지 8 의 탄소를 함유하는 선형 또는 가지형 라디칼을 나타낸다.

[0088] 본원에 기재된, 단독으로 또는 다른 라디칼과 결합된 용어 '시클로알킬' 은 시클로프로필, 시클로부틸, 시클로헵틸, 시클로헥실, 시클로헵틸 등과 같은 3 내지 7 의 탄소를 함유하는 라디칼을 나타낸다.

[0089] 다른 방법으로 나타내지 않는 한, 본원에서 단독으로 또는 다른 기의 부분으로 사용된 용어 '아미노산' 은 제한 없이 아미노기 및 'a' 탄소로 언급된 동일한 탄소에 연결된 카르복실기를 포함한다.

[0090] 'a' 탄소에서의 완전한 'S' 입체배치는 'L' 또는 천연의 입체배치로서 일반적으로 나타낸다. 'a' 탄소에서의 'R' 입체배치는 'D' 아미노산으로 일반적으로 나타내었다. 수소 또는 메틸과 같이 'a-치환기'가 둘 다 동일한 경우에는 아미노산은 Gly 또는 Aib 이고, 비대칭이 아니다.

[0091] 본 발명은 단쇄 펩티드에 관하여 주로 예를 들었지만, PTH 효능적 활성을 모방할 수 있는 능력을 유지할 수 있다면 잔기 사이의 펩티드 결합은 비-펩티드 결합으로 교체될 수 있음을 또한 이해할 수 있을 것이다. 본 분야의 숙련자는 티오아미드 결합 형성, 아미드 결합의 N-메틸화 등과 같은 적절한 변형물을 인지할 수 있다.

- [0092] 생물학적 활성도가 유지된다면, 아미노산의 보존성 치환을 포함하는 서열은 또한 본 발명의 범위 내에 속한다.
- [0093] 본 발명의 화합물은 다음으로 한정되지 않지만 이를 포함하는 펩티드 아미드 및 비-아미드 및 펩티드 유사체를 포함함을 분명하게 이해할 수 있을 것이다 ;
- [0094] a) 하나 또는 그 이상의 아미노산이 이에 상응하는 D-아미노산으로 교체된 화합물. 본 분야의 숙련자는 레트로-인버소 아미노산 서열(retro-inverso amino acid sequences)을 표준실험 방법으로 합성할 수 있음을 인식할 수 있을 것이다 ; 예를 들어 Chorev M., Acc. Chem. Res., 26, 1993, 266-273 참조 ;
- [0095] b) 펩티드 결합이 대사적인 분해에 보다 잘 견딜 수 있는 구조로 교체된 펩티드 모방성 화합물(peptidomimetic compound). 예를 들어 Olson G. L., et al., J. Med. Chem., 36(21), 1993, 3039-3049 참조 ; 및
- [0096] c) 예를 들어 Ala 가 Aib 로 또는 Met 가 α -Me-Met 로 교체된 것과 같이 각각의 아미노산이 유사한 구조로 교체된 화합물.
- [0097] 일반적으로, 이러한 교체 가능한 구조물의 사용은, 이들이 생리학적 조건 하에서 분해에 보다 저항성을 갖거나 또는 생물학적 이용도를 증진시키기 때문에 신체에서 상당히 긴 반감기를 제공할 수 있다.
- [0098] 상세한 설명에 기재된 천연 아미노산의 일반적인 하나의 문자 코드 및 세 문자 코드는 Har(호모아르기닌), Nle(노르류신), α -아미노 이소부티르산(Aib)으로 사용된 바와 같이 다른 비천연 아미노산의 세 문자 코드에서도 일반적으로 허용가능하게 사용할 수 있다.
- [0099] 용어 'PTH 수용체 조절인자 또는 작용물질'은 PTH-1 및/또는 PTH-2 수용체에서 cAMP 생산과 같이 하위 신호전달(downstream signaling event)을 조절할 수 있는 PTH-1 및/또는 PTH-2 수용체의 능력을 변화시키도록 작용할 수 있는 화합물을 나타낸다. 수용체 조절인자의 예로서 작용물질, 부분적인 작용물질, 반대 작용물질(inverse agonist) 및 알로스테릭 강화제(allosteric potentiator)를 포함한다.
- [0100] 본 발명에 따라서, 본원에 기재된 합성된 분리된(isolated) 단쇄 펩티드는 주로 PTH 수용체 작용물질로서 작용한다. 이러한 합성된 단쇄 펩티드는 생체외에서 1-1000 nM 농도의 범위로 UMR-106 세포에서 생체 외 바람직한 PTH 수용체의 효능적 활성을 나타내었다. PTH 수용체의 효능적 활성은 실험 화합물에 의해 방출된 cAMP의 양을 평가하여 측정하였다. 몇몇의 제조된 단쇄 펩티드는 생체내 OVX 랫 모델에서 실험하였을 때 BMD 및/또는 골 강도에서의 증가를 나타내었고, 따라서 이들 펩티드는 골다공증의 치료 및 예방에 이상적인 치료학적 후보물질이 될 수 있다. 이러한 새로운 클래스(class)의 단쇄 펩티드는 경구 또는 그밖의 비외과적인 경로(non-invasive routes) 또는 비경구의 투여 방법에 의해 투여될 수 있다.
- [0101]
- [0102] 본 발명은 이러한 단쇄 펩티드가 단독으로 또는 조합물(combination)로서 사용된 화학식 1의 약제학적 조성물 및 이러한 단쇄 펩티드를 사용하는 방법을 제공한다. 특히, 본 발명은 약제학적으로 허용되는 담체와 화학식 1의 단쇄 펩티드를 단독으로 또는 조합물로 약제학적 유효량을 포함하는 약제학적 조성물을 제공한다. 게다가 본 발명은 화학식 1의 단쇄 펩티드 또는 이들의 조합물의 약제학적 유효량을 치료를 필요로 하는 포유동물, 예를 들어 인체 및 환자에게 투여하여, 골다공증, 특히 초기 골다공증, 내분비성 골다공증(endocrine osteoporosis), 폐경후 골다공증, 유전적이고 선천적인 형태의 골다공증의 진행 또는 발현을 치료하거나 지연시키는 방법을 제공한다.
- [0103] **단쇄 펩티드의 제조방법 :**
- [0104] 본 발명의 단쇄 펩티드를 제조하기 위해서 펩티드 합성 분야에서 숙련된 숙련자에게 공지된 몇몇의 합성 방법을 사용할 수 있다. 모든 부호는 하기에 나타낸 바와 같은 화학식 1의 단쇄 펩티드는 펩티드 합성 분야에서 숙련

자에게 공지된 일반적인 방법 또는 본 분야의 숙련자에 의해서 예측될 수 있는 변형된 방법과 함께 하기에 나타난 방법을 사용하여서 합성할 수 있다. 언급된 방법은 하기에 나타난 방법을 포함하지만 이로 한정되지 않는다.

- [0105] 본원에 기재된 이의 단쇄 펩티드는 G. Barany & R. B. Merrifield "The peptides: Analysis, synthesis, Biology" ; Volume 2- "Special methods in peptide synthesis, Part A", pp. 3-284, E. Gross & J. Meienhofer, Eds., Academic Press, New York, 1980; and in J. M. Stewart and J. D. Young, "Solid-phase peptide synthesis" 2nd Ed., Pierce chemical Co., Rockford, Il, 1984. 에 기재된 바와 같이 용액상 (solution-phase)(바람직하게, Boc-화학 ; M. Bodansky, A. Bodansky, "The practice of peptide synthesis", Springer-Verlag, Berlin, 1984; E. Gross, J. Meienhofer, "The peptide synthesis, analysis, biology", Vol. 1, Academic Press, London, 1979) 및/또는 고체상 기술 둘 다의 적절한 변형된 방법을 사용하여 화학적 합성에 의해 생산될 수 있다.
- [0106] 본 발명의 단쇄 펩티드를 제조하기 위한 바람직한 방법은 Fmoc-기반 SPPS 처리방법을 사용을 기반으로 하며, 여기서 만약 존재한다면 아미노산 잔기의 일시적인 보호를 위해서, tert-부톡시카르보닐(Boc), tert-부틸(Bu^t), 트리틸(Trt)기(도 2)와 같은 산성 이치환성 보호기(acid labile protecting groups)가 결합된 Fmoc(9-플루오레닐메톡시카르보닐)기를 사용하였다(예를 들어 E. Atherton & R.C. Sheppard, "The Fluorenylmethoxycarbonyl amino protecting group", in "The peptides: Analysis, synthesis, Biology"; Volume 9 - "Special methods in peptide synthesis, Part C", pp. 1-38, S. Undenfriend & J. Meienhofer, Eds., Academic Press, San Diego, 1987 를 참고).
- [0107] 단쇄 펩티드를 펩티드의 C-터미널 형태로 시작되는 불수용성 폴리머 지지체(수지 : resin)로 순차적인 방법으로 합성할 수 있다. 실시형태에 있어서, 합성은 아마이드, 에스테르 또는 에테르 결합의 형성을 통해서 수지에 펩티드의 C-터미널 아미노산을 결합시켜서 시작된다. 이는 각각 C-터미널 아마이드, 카르복실산 또는 알콜과 같은 결과적으로 발생한 펩티드의 최종적인 방출을 가능하게 한다.
- [0108] Fmoc-기반 SPPS 에서, 수지로부터 펩티드의 때이른 분해 또는 결사슬 보호기의 탈보호 없이, 20 % 피페리딘 용액과 같은 적절한 염기를 사용하여 α-아미노 보호기가 합성되는 동안에 선택적으로 제거될 수 있는 것과 같이 이러한 합성에서 사용된 C-터미널 아미노산 및 그 밖의 아미노산은 (만약 존재한다면) 별도로 보호된(직교의 보호 : orthogonal protection) 이들의 α-아미노기 및 결사슬 기능을 가져야 하고 산성 이치환성 보호기로 일반적으로 보호되어야 한다.
- [0109] 아미노산의 결합은 수지에 부착된 N-터미널 아미노산의 비블럭화 된(unblocked) α-아미노기로 활성 에스테르 및 이의 반응으로써 이의 카르복실기의 활성화에 의해서 실시된다. 모든 결합 및 탈보호 반응 후에는 펩티드-수지는 DMF, DCM 및 디에틸 에테르와 같은 초과량의 용액으로 세척하였다. α-아미노산 기의 탈보호 및 결합의 연속된 과정을 바람직한 펩티드 서열이 조립될 때까지 반복한다(도식 1). 그리고 난 다음에 부가 반응(side reaction)을 제한하기 위해서 일반적으로 적절한 스캐빈저(scavenger)의 존재 하에서 적절한 분해 혼합물을 사용하여 결사슬 기능에 수반되는 탈보호를 갖는 수지로부터 펩티드를 분해하였다. 결과적으로 생성된 펩티드를 역상 HPLC 로 최종적으로 정제하였다.
- [0110] 최종 펩티드에 대한 전구체(precursor)로서 요구된 펩티드-수지의 합성물은 상업적으로 이용가능한 교차-결합된 폴리스티렌 폴리머 수지(미국 캘리포니아 샌디에고 Novabiochem)를 활용하였다. 본 발명에서 C-터미널 아미노산을 이미 부착되었거나 부착되지 않은 Fmoc-PAL-PEG-PS 수지, 4-(2',4'-디메톡시페닐)-Fmoc-아미노메틸)-페녹시아세틸-*p*-메틸 벤즈하이드릴아민 수지(Fmoc-Rink 아마이드 MBHA 수지), 2-클로로-트리틸-클로라이드 수지 또는 *p*-벤질옥시벤질 알콜 수지(HMP 수지)를 우선적으로 사용하였다. C-터미널 아미노산이 부착되지 않았다면, DIPCDI로

이러한 반응으로 형성된 Fmoc-보호된 아미노산의 HOBt 활성 에스테르에 의해서 부착시킬 수 있다. 2-클로로-트리틸 수지의 경우에는, DIPEA를 사용하여 첫번째 Fmoc-보호된 아미노산을 결합시켰다. 다음의 아미노산 조합을 위해서 펩티딜 수지의 N-터미널 보호는 10-20% 피페리딘 용액을 사용하여 선택적으로 탈보호되었다. 모든 결합 및 탈보호반응 후에, 아미노산 및 결합 시약의 잉여물을 DMF, DCM 및 에테르로 세척하여 제거하였다. 각각의 DIPCDI/HOBt 또는 DIPCDI/HOAT로부터 생성된 HOBt 또는 HOAT 활성 에스테르를 사용하여 다음의 아미노산의 결합을 성취할 수 있었다. 특히 소수성 아미노산 또는 부피가 큰(bulky) 결사슬 보호기를 가진 아미노산의 몇몇의 어려운 결합의 경우에는, DIPEA와 같은 첨가물과 함께 HBTU, PyBOP 또는 TBTU와 같은 매우 효율적인 결합제를 사용하여서 결합을 완전하게 달성할 수 있다.

[0111] 본원에 기재된 단쇄 펩티드의 합성은 Fmoc/t-부틸 보호 방법을 활용하여 CS-Bio 또는 AAPPTEC 펩티드 합성장치(synthesizer)와 같은 회분식(batchwise) 또는 연속식 펩티드 합성 장치(continuous flow peptide synthesis apparatus)를 사용하여서 실행할 수 있다. 상이한 위치에서 존재하는 비-천연의 상업적이지 않은 아미노산을 본 분야에서 공지된 하나 또는 그 이상의 방법을 사용하여 펩티드 사슬에 결합시켰다. 하나의 처리방법에 있어서, 적절한 문헌의 절차를 사용하여 Fmoc-보호된 비-천연 아미노산을 용액에서 제조하였다. 예를 들어서, 문헌의 변형된 절차를 사용하여 좋은 거울상 이성질체 순도로 L-피로글루탐산으로부터 상기에 기재한 Fmoc-보호된 APPA 유사체를 제조하였다(Betsbrugge J.V. 등의, Tetrahedron, 54, 1988, 1753-1762).

[0112]

[0113] 비대칭성 스트레이터 합성방법(asymmetric Strecker synthesis)을 사용하여 Fmoc-보호된 α -메틸화 아미노산을 제조하였다(Boesten, W.H.J., et al., Org. Lett., 3(8), 2001, 1121-1124; Cativiela C., Diaz-de-villegas M. D., Tetrahedron Asymmetry, 9, 1988, 3517-3599). 그리고 난 다음에 결과적으로 생성된 유도체를 펩티드의 순차적인 합성에서 사용하였다. 그 대신에, 합성 유기화학 제조방법을 사용하여 직접적으로 수지에 요구된 비-천연 아미노산을 합성하였고, 선형 펩티드 사슬을 합성하였다.

[0114] 문헌에 기재된 표준 분해 절차에서의 적절한 변이(variation)를 사용하여 이들 각각의 단쇄 펩티드에 대한 펩티드-수지 전구체를 분해하고 탈보호시킬 수 있다(King D.S., 등의, Int. J. Peptide Protein Res., 1990, 36, 255-266). 본 발명에 사용된 바람직한 방법은 스캐빈저로서 물 및 TIPS의 존재 하에서 TFA 분해 혼합물을 사용하였다. 일반적으로, 펩티드-수지를 실온에서 1.5-4 시간 동안 TFA/물/TIPS(95:2.5:2.5)에서 배양하였다(incubate). 그리고 난 다음에 분해된 수지를 여과하여 제거하고 환산압력 하에서 TFA 용액을 농축시키고 건조시켰다. 결과적으로 생성된 조 펩티드(crude peptide)를 침전시키거나 Et₂O로 세척하거나, 조제용(preparative) HPLC로 정제하기 위해 DMF 또는 50 % 수성 아세트산에 직접적으로 재용해시켰다.

[0115] 원하는 순도를 갖는 단쇄 펩티드를 조제용 HPLC를 사용하여 정제하여 수득할 수 있다. 조 펩티드 용액을 semi-Prep 컬럼(Luna 10m; C₁₈; 100 Å), 치수 250 X 50 mm)에 주입시켰고, 용출액을 220 nm로 PDA 검출기로 모니터링하면서 40 mL/분의 유량으로 둘 다 0.1%의 TFA에 완충시킨 물에 용해시킨 ACN의 선형 구배(linear gradient)로 용출시켰다. 정제된 단쇄 펩티드의 구조는 전기 스프레이 질량 분석기(Electrospray Mass Spectroscopy : ES-MS) 분석으로 확인할 수 있다.

[0116]

[0117] 제조된 모든 펩티드는 Prep-HPLC 정제 후에 반대이온(counter ion)으로서 TFA와 함께 트리플루오로-아세트레이트 염으로서 분리하였다. 그러나 적절한 이온 교환 수지 베드, 바람직하게 음이온-교환 수지 Dowex SBR P(C1) 또는 당량 기초 음이온-교환 수지를 통해 통과시켜서 몇몇의 펩티드를 탈염시키기 위해 주입하였다. 몇몇의 경우에, 희석된 아세트산 완충용액으로 용출시켜 적절한 이온-교환 수지를 통과시킴으로써 TFA 반대이온을 아세트레이트 이온으로 교체시켰다. 펩티드의 히드로클로라이드 염 제조를 위해서, 제조방법의 마지막 단계에서, 아세트레이트 염을 갖는 선별된 펩티드를 4M HCl로 처리하였다. 결과적으로 생성된 용액을 막 필터(0.2 μ m)으로 여과시키고 그 다음에 백색 내지 오프 화이트(off-white)의 HCL 염을 수득하기 위해서 동결건조시켰다. 본 분야에서의 숙련자에게 잘 알려진 범위 내에서 다음의 유사한 기술 및/또는 이러한 적절한 변형된 방법으로 본 발명의 단쇄 펩티드의 또 다른 적절한 약제학적으로 허용되는 염을 제조하였다.

[0118]

도면의 간단한 설명

[0119]

도 1 : 랫 PTH-1 R 검정에서의 생체 외에서의 PTH(1-34) (A) 및 Seq. ID No. 111 (B)의 DRC 및 EC₅₀ 측정(방출된 cAMP 의 양으로 측정된 효능적 활성)

도 2 : 단쇄 펩티드의 Fmoc 기반-고체상 펩티드합성(SPPS)에서 사용된 직교하여 보호된 아미노산의 예

도 3 : OVX 암컷 랫의 생체 내에서 Seq. ID No. 111 (A : 혈청 Ca²⁺ 농도의 증가율 ; B: 혈청 PO₄ 농도의 감소율 %)

도 4 : Seq. ID No. 111 및 PTH(1-34)로 6 주 치료한 후의 OVX랫에서의 생화학적 파라미터 및 대퇴골 무게의 변화

도 5 : Seq. ID No. 111 로 6 주 치료한 후의 OVX 랫에서의 대퇴골 조직학적 단면도

도 6 : Seq. ID No. 111 로 6 주 치료한 후의 OVX 랫에서의 경골 조직학적 단면도

도 7 : Seq. ID No. 111 로 6 주 치료한 후의 OVX 랫에서의 요추 조직학적 단면도

발명을 실시하기 위한 구체적인 내용

[0120]

SPPS 처리 방법을 사용한 단쇄 펩티드의 일반적인 제조방법 :

[0121]

수지에서의 단쇄 펩티드의 조립 :

[0122]

충분한 양(50-100mg)의 Fmoc-PAL-PEG-PS 수지 또는 Fmoc-Rink 아미드 MBHA 수지를 0.5-0.6 mmol/g 으로 로딩 (loading)하여 2-10분 동안 DMF(1-10 mL /100 mg 의 수지)에서 부풀렸다. DMF(10-30mL/100mg의 수지)에 용해시킨 10-30% 피페리딘으로 수지를 10-30분 동안 배양하여 수지에서 Fmoc-기를 제거하였다. 탈보호된 수지를 여과시키고 초과량의 DMF, DCM 및 에테르(50 ml X 4)로 세척하였다. 질소 대기 하에서 세척된 수지를 5분 동안 갓 증류된 DMF(1 mL / 100 mg 의 수지)에서 배양시켰다. DMF에 용해시킨 0.5 M 용액의 첫번째 Fmoc-보호된 아미노산(1-3 eq.), 예비 활성화된 HOBt(1-3 eq.) 및 DIPCDI(1-2 eq.)를 수지에 첨가하고 질소 대기 하에서 수지를 1-3시간 동안 교반시켰다. 정성 닐하이드린 시험(qualitative ninhydrin test)를 이용하여 결합의 완성을 모니터링하였다. 첫 번째 아미노산을 결합시킨 후에, 수지를 DMF, DCM 및 디에틸 에테르(50 mL X 4)로 세척하였다. 다음의 아미노산의 결합을 위해서, 다음에 상기에 기재한 바와 같이 우선 10-20% 피페리딘 용액을 이용하여 수지와 결합된 첫번째 아미노산에서의 Fmoc-보호를 탈보호시킨 적절한 결합제를 사용하여 Fmoc-보호된 두 번째 아미노산을 결합시켰다.

[0123]

일반적인 도식 1과 같이 수지에서의 원하는 펩티드 잔기를 조립할 때까지 탈보호, 세척, 결합 및 세척의 반복된 사이클을 실행하였다. 최종적으로 상기한 바와 같은 20% 피페리딘 처리에 의해서 상기에 제조된 Fmoc-보호된 펩티드-수지를 탈보호시켰고, 펩티드-수지를 DMF, DCM 및 디에틸 에테르(50 mL X 4)로 세척하였다. 원하는 펩티드를 포함하는 수지를 질소 압력 하에서 10-15 분 동안 건조시키고 분해/탈보호시키기 위해 주입시켰다.

[0124]

본 분야의 숙련자에게 알려진 범위 내에서 상기의 프로토콜 및 이의 적절한 변형방법을 사용하여, Fmoc-SPPS 처리 방법을 사용하여 본 발명에서 의도된 단쇄 펩티드를 제조하였다. 최종적으로, 단쇄 펩티드가 결합된 수지를 분해하고 탈보호시키고 다음의 부분에 기재된 프로토콜을 이용하여 정제하고 특징지었다.

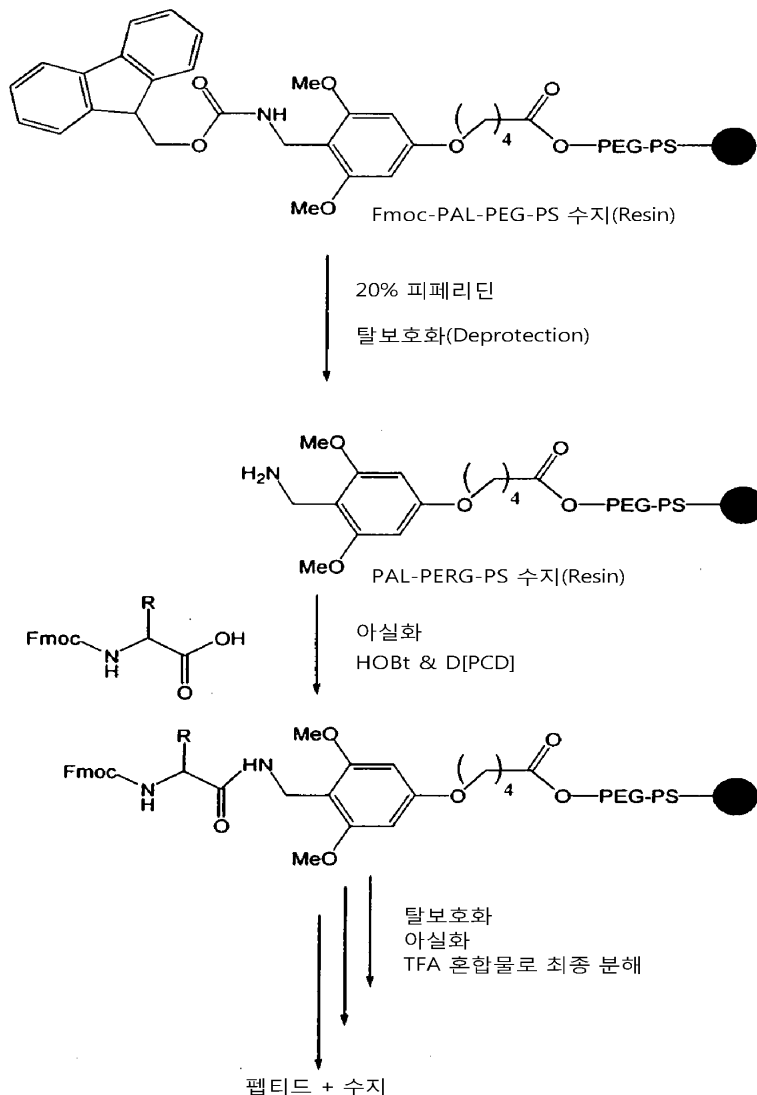
[0125]

펩티드 서열 ID. No. 18 의 자동화된 고체상 합성의 대표적인 예 : H₂N-(AC₅C)-V-(AC₅C)-EIQLMHQ-Har-(α Me-Pro)-K-(α -Me-Phe)-CONH₂.

[0126]

선형의 단쇄 펩티드 H₂N-(AC₅C)-V-(AC₅C)-EIQLMHQ-Har-(α Me-Pro)-K-(α -Me-Phe)-PAL-PEG-PS 를 Fmoc 고체상 펩

티드 합성(SPPS) 처리방법(도식 2)을 사용하여 자동화된 CS-Bio 536 PepSynthesiser™ 에서 조립하였다. Fmoc 아미노산 및 2-(1#-벤조트리아졸-1-일)-1,1,3,3-테트라메틸우로늄테트라플루오로보레이트(TBTU)를 우리병에 넣어서 같이 포장하고, 합성장치의 아미노산 모듈(module)에 두었다.



도식 1 : Fmoc-기반 SPPS의 일반적인 도식

다이소프로필에틸아민(DIPEA ; 0.9 M) 및 DMF 의 원액(stock solution)을 건조 질소 대기 하에서 시약병에 보관 처리하다. 수지 Fmoc-PAL-PEG-PS(0.38 mmol/g; 1g)를 (1 시간) 진공에서 P_2O_5 상에서 건조시키고, 갓 증류된 DMF(5 mL)에서 부풀렸다. 부풀어진 수지를 유리컬럼(glass column)에 슬러리(slurry)상태로 보관처리 하였고 합성 장치에 두었다. 모든 합성 사이클을 표 1 에 나타낸 바와 같이 5 mL min^{-1} 의 유량으로 실시하였다. 수지를 10 분 동안 갓 증류된 DMF 로 세척하였다. Fmoc기의 탈보호를 10 분 동안 DMF 에 용해시킨 20 % 피페리딘으로 실행 하고, 탈보호 여부를 304 nm 에서 컬럼 용출액의 UV 검출로 모니터하였다.

[표 1]

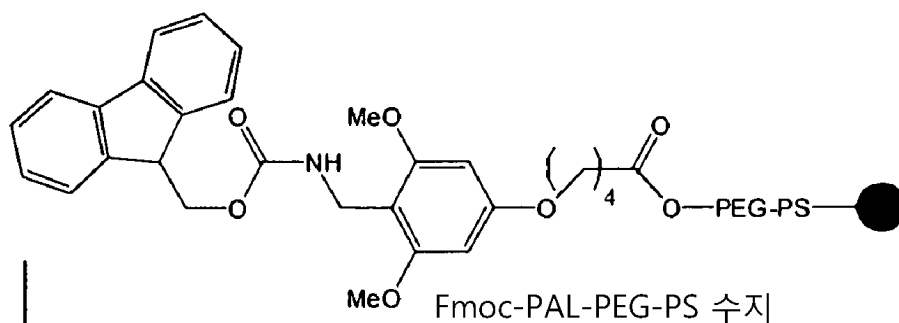
[0130] 고체상 펩티드 합성의 자동화된 사이클

단계	기능	지시약/용매	사이클 횟수	시간(분)
1	세척	디메틸 포름아미드(DMF)	1	10
2	탈보호	DMF에 용해시킨 20% 피페리딘	2	15
3	세척	DMF	3	15
4	아실화	아미노산 ; (DMF에 용해시킨) TBTU 및 디 이소프로필 에틸아민	재순환	120
5	세척	디메틸포름아미드	4	10

[0131]

[0132]

각각의 사이클 당 15 분으로 3 번의 보조 세척 사이클 및 증류된 DMF 세척 사이클로 과량의 피페리딘을 제거하였다. 아미노기를 Fmoc-아미노산(4 당량)으로 처리하고, DIPEA(8 당량)의 존재 하에서 TBTU(3.9 당량)으로 미리 활성화시키고 120 분 동안 재순환시켰다. 각각의 사이클에서 10 분 동안 4 번의 보조 세척 사이클 및 증류된 DMF 세척 사이클을 통해 컬럼 및 루프로부터 과량의 아미노산 및 수용성 부산물을 제거하였다. 더욱이, 선형 펩티드의 완전한 조립을 위해서 합성 사이클(탈보호, 세척, 아실화 및 세척)을 반복하였다. 터미널 Fmoc기를 제거하기 위해서 15 분 동안 DMF 에 용해시킨 20 % 피페리딘으로 최종적인 탈보호 사이클을 실시하고 세척 사이클(10 X 4 분)을 실시하였다. 완전한 펩티드-수지를 소결 유리 여과기(sintered glass filter)로 정제하고, DMF, DCM, 메탄올, DMF 및 디에틸 에테르(각각 100 mL)로 연속적으로 3 번 세척하였다. P₂O₅ (2 hr) 상 진공에서 펩티드-수지를 건조시키고 -20 °C 에서 저장하였다.



- 1) 피페리딘 (Fmoc 탈보호화)
- 2) Fmoc- α -Me-Phe-OH (4 eq.); DMF; TBTU (3.9 eq.); DIPEA (8 eq); 2 h
- 3) DMF 및 DCM으로 세척
- 4) 다음의 아미노산으로 단계1-3을 반복
 - Fmoc-Lys(Boc)-OH
 - Fmoc- α -Me-Pro-OH
 - Fmoc-Har(Pbf)-OH
 - Fmoc-Gln(Trt)-OH
 - Fmoc-His(Trt)-OH
 - Fmoc-Met-OH
 - Fmoc-Leu-OH
 - Fmoc-Gln(Trt)-OH
 - Fmoc-Ile-OH
 - Fmoc-Glu(OtBu)-OH
 - Fmoc-AC₅C-OH
 - Fmoc-Val-OH
 - Fmoc-AC₅C-OH
- 5) 피페리딘 (Fmoc 탈보호화)
- 6) TFA 분해
- 7) RP-HPLC 정제

H₂N-(AC₅C)-V-(AC₅C)-EIQLMHQ-Har-(α -Me-Pro)-K-(α -Me-Phe)-CONH₂
(Seq. ID. No. 18)

도식 2 : Seq. ID. No. 18의 SPPS

[0133]

[0134] 도식 2 : Seq.ID.No. 18 의 SPPS

[0135] 수지 결합된 펩티드의 N-터미널 유리 아미노기를 확인하기 위해서 닌하이드린 시험을 실시하였다. 남색의 용액 및 수지 비드(bead)의 출현은 수지에서 유리 아미노기의 존재를 나타내고 양성 반응(positive test)로 간주된다.

[0136] 수지 결합된 펩티드의 순도를 측정하기 위해서 소규모 분해를 실시하였다. 실온에서 90 분 동안 서서히 가끔씩 저어주면서 건조된 펩티드-수지(ca 10-mg)를 TFA, 물, 트리이소프로필실란(95: 2.5: 2.5 v/v)의 혼합물(1 mL)로 처리하였다. 수지를 정제하고 아무것도 섞지 않은 TFA(1 mL)로 철저히 세척하고, 전체 여과액을 환산 압력 하에서 증발시켰다. 잔류한 TFA 를 디에틸 에테르(2 mL)로 3 번 공비혼합 시켰다. 수득한 잔류물을 증류수(2 mL)에 현탁시키고 수성층을 디에틸 에테르(3 mL)로 3 번 추출하였다. 조펩티드 H₂N-(AC₅C)-V-(AC₅C)-EIQLMHQ-

Har-(α -Me-Pro)-K-(α -Me-Phe)-CONH₂ 를 산출하기 위해서 수성층을 분리하고 동결건조시켰다. 동결건조된 펩티드 H₂N-(AC₅C)-V-(AC₅C)-EIQLMHQ-Har-(α -Me-Pro)-K-(α -Me-Phe)-CONH₂ 를 0.1 % 수성 TFA(ca 1mg /1 mL)에 용해시키고 이의 순도를 RP-HPLC 로 분석하였고 전기 스프레이 이온화 질량 분석법(ESI-MS)으로 특징지었다. 순도 퍼센트 : 90 %(조 펩티드). ESI-MS; H₂N-(AC₅C)-V-(AC₅C)-EIQLMHQ-Har-(α -Me-Pro)-K-(α -Me-Phe)-CONH₂ 에 대한 계산치: 1790 (M⁺), 1812 (M+Na⁺) 및 1828 (M+K⁺); 측정치 (m/z): 1790 (M⁺), 1812 (M+Na⁺) and 1828 (M+K⁺).

[0137] 본 분야의 숙련자의 범위 내에서 상기의 프로토콜 및 이의 적절한 변형 방법을 사용하여, Fmoc-SPPS 처리방법을 사용하여 본 발명의 원하는 단쇄 펩티드를 제조하였다. 더욱이, 하기의 프로토콜을 사용하여 수지 결합된 단쇄 펩티드를 분해하고 탈보호하고 정제하고 특징지었다.

[0138] 분해 및 탈보호 :

[0139] 원하는 단쇄 펩티드를 다음과 같이 TFA 분해 혼합물로 처리하여 이들 각각의 펩티드-수지로부터 분해하고 탈보호시켰다. TFA/물/트리이소프로필실란(95:2.5: 2.5)의 용액(10 mL / 100 mg 의 펩티드-수지)을 펩티드-수지에 첨가하고 혼합물을 가끔씩 저어주면서 실온에서 유지시켰다. 수지를 정제하고 분해 혼합물로 세척하고 결합된 여과액을 건조시키기 위해 증발시켰다. 수득한 잔류물을 10 mL 의 물에 용해시키고 수성층을 에테르(각각 20 mL)로 3 번 추출하고 최종적으로 수성층을 동결건조시켰다. 동결건조 후에 수득한 조 펩티드를 다음과 같이 조제용 HPLC 로 정제하였다 :

[0140] 조 단쇄 펩티드의 조제용 HPLC 정제 :

[0141] 조제용 HPLC 를 Shimadzu LC-8A 액체 크로마토그래피에서 실시하였다. DMF 또는 물에 용해시킨 조 펩티드의 용액을 semi-Prep 컬럼(Luna 10m; C₁₈; 100 Å⁰), 치수 250 X 50 mm 에 주입시키고, 용출액을 220 nm 로 PDA 검출기로 모니터링하면서 15-50 mL 의 유량으로 둘 다 0.1 % TFA 에 완충시킨 물에 용해시킨 ACN 의 선형 구배로 용출시켰다. 0.1 % TFA 로 완충시킨 일반적인 구배(gradient)의 20 % 내지 70 % 의 물-ACN 혼합물을 1 분당 1 % 구배로 50 분 동안 사용하였다. 용출된 원하는 산물을 단일 10-20 mL 분획(fraction)으로 수집하고, 각각의 HPLC 분획물을 냉동건조시켜 순수한 단쇄 펩티드를 비결정성 백색의 분말로서 수득하였다.

[0142] 정제된 단쇄 펩티드의 HPLC 분석 :

[0143] 상기한 바와 같이 조제용 HPLC 로 정제한 후에, Shimadzu LC-10AD 분석 HPLC(analytical HPLC) 시스템에서 분석 RP-HPLC 로 각각의 펩티드를 분석하였다. 단쇄 펩티드의 분석 HPLC 분석을 위해서 0.1 % TFA 및 ACN 완충용액의 선형 구배로 Luna 5μ; C₁₈; 100 Å 치수 250 X 4.6 mm 컬럼을 사용하였고, 크로마토그램의 수집(acquisition)을 PDA 검출기로 220 nm 에서 실시하였다.

[0144] 질량 분석기에 의한 특성 :

[0145] 플로우 인젝션 분석(flow injection) 또는 LC/MS 방법으로 전기 스프레이 이온화 질량 분석법으로 각각의 펩티드를 특징지었다. 양이온 및 음이온 전기 스프레이 방법으로 삼단계 사중극자(Triple quadrupole) 질량 분석기 [API-3000 (캐나다 MDS-SCIEX로부터 입수)]를 모든 분석에서 사용하였다. 단위 분별(unit resolution)로 작동되고, 사중 극자의 질량 범위에서 모든 정밀 검사 데이터를 획득하였다. 모든 경우에 있어서, 실험적으로 측정된 분자량은 0.5 달톤의 측정된 단일 동위 원소 분자량(monoisotopic molecular weight)이었다. 질량 크로마토그램의 수량화를 Analyst 1.4.1 소프트웨어를 사용하여 실행하였다.

[0146] 다른 일반적으로 공지된 기술 및 이의 적절한 변형된 방법과 마찬가지로 본원에 기재된 합성 방법을 사용하여, 다음의 신규한 단쇄 펩티드를 제조하였다[표 2(A-S)]. 표 2의 목록은 본 발명에 따라서 제조될 수 있는 다양한

그룹의 단쇄 펩티드를 나타내고, 이러한 단쇄 펩티드의 최소한의 명백한 변형물을 포함함을 예측할 수 있다. 그러나, 이러한 기재로 어떤 방법으로든 본 발명의 범위를 한정하는 것으로 이해해서는 안된다. 표 2(A-S)에서, 본 발명의 신규한 단쇄 펩티드를 이의 상응하는 Seq ID NO 로 리스트를 작성하였다.

[0147]

[표 2]

[0148]

A : 제조된 단쇄 펩티드 목록

Seq. ID. No.	단쇄 펩티드 서열
5	Aib-V-Aib-EIQLMHQ-Har-AK-(α -Me-Phe)
6	Aib-V-Aib-EIQL-Nle-HQ-Har-AK-(α -Me-Phe)
7	Aib-V-Aib-EIQLMHQ-Har-(α -Me-Pro)-K-(α -Me-Phe)
8	Aib-V-Aib-EIQL-Nle-HQ-Har-(α -Me-Pro)-K-(α -Me-Phe)
9	Aib-V-Aib-EIQLMHQ-Har-Aib-K-(α -Me-Phe)
10	Aib-V-Aib-EIQL-Nle-HQ-Har-Aib-K-(α -Me-Phe)
11	(AC ₃ C)-V-Aib-EIQL-Nle-HQ-Har-AK-(α -Me-Phe)
12	(AC ₃ C)-V-Aib-EIQLMHQ-Har-(α -Me-Pro)-K-(α -Me-Phe)
13	(AC ₃ C)-V-Aib-EIQL-Nle-HQ-Har-(α -Me-Pro)-K-(α -Me-Phe)
14	(AC ₃ C)-V-Aib-EIQLMHQ-Har-Aib-K-(α -Me-Phe)
15	(AC ₃ C)-V-Aib-EIQL-Nle-HQ-Har-Aib-K-(α -Me-Phe)
16	Aib-V-(AC ₃ C)-EIQLMHQ-Har-Aib-K-(α -Me-Phe)
17	Aib-V-(AC ₃ C)-EIQL-Nle-HQ-Har-Aib-K-(α -Me-Phe)
18	(AC ₃ C)-V-(AC ₃ C)-EIQLMHQ-Har-(α -Me-Pro)-K-(α -Me-Phe)
19	(AC ₃ C)-V-(AC ₃ C)-EIQL-Nle-HQ-Har-(α -Me-Pro)-K-(α -Me-Phe)
20	(AC ₃ C)-V-Aib-EIQLMHQ-Har-Aib-K-(α -Me-Phe)
21	(AC ₃ C)-V-Aib-EIQL-Nle-HQ-Har-Aib-K-(α -Me-Phe)
22	Aib-V-(AC ₆ C)-EIQLMHQ-Har-Aib-K-(α -Me-Phe)
23	Aib-V-(AC ₆ C)-EIQL-Nle-HQ-Har-Aib-K-(α -Me-Phe)
24	Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-AK-(α -Me-Phe)
25	Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-(α -Me-Pro)-K-(α -Me-Phe)
26	Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-Aib-K-(α -Me-Phe)
27	(AC ₃ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-AK-(α -Me-Phe)
28	(AC ₃ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-(α -Me-Pro)-K-(α -Me-Phe)
29	(AC ₃ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-Aib-K-(α -Me-Phe)
30	Aib-V-(AC ₃ C)-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-AK-(α -Me-Phe)
31	Aib-V-(AC ₃ C)-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-(α -Me-Pro)-K-(α -Me-Phe)
32	Aib-V-(AC ₃ C)-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-Aib-K-(α -Me-Phe)
33	(AC ₃ C)-V-(AC ₃ C)-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-AK-(α -Me-Phe)
34	(AC ₃ C)-V-(AC ₃ C)-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-(α -Me-Pro)-K-(α -Me-Phe)
35	(AC ₃ C)-V-(AC ₃ C)-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-Aib-K-(α -Me-Phe)

[0149]

[0150] B: 제조된 단쇄 펩티드 목록

Seq. No.	ID.	단쇄 펩티드의 서열
36		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-AK-(α -Me-Phe)
37		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-(α -Me-Pro)-K-(α -Me-Phe)
38		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-K-(α -Me-Phe)
39		(AC ₃ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-AK-(α -Me-Phe)
40		(AC ₃ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-(α -Me-Pro)-K-(α -Me-Phe)
41		(AC ₃ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-K-(α -Me-Phe)
42		Aib-V-(AC ₅ C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-AK-(α -Me-Phe)
43		Aib-V-(AC ₅ C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-(α -Me-Pro)-K-(α -Me-Phe)
44		Aib-V-(AC ₅ C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-K-(α -Me-Phe)
45		(AC ₃ C)-V-(AC ₃ C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-AK-(α -Me-Phe)
46		(AC ₃ C)-V-(AC ₃ C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-(α -Me-Pro)-K-(α -Me-Phe)
47		(AC ₃ C)-V-(AC ₃ C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-K-(α -Me-Phe)
48		(AC ₃ C)-V-(AC ₃ C)-EIQ-(α -Me-2,6-F-Phe)-Nle-H-(Abu(CN))-Har-AK-(α -Me-Phe)
49		(AC ₃ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-AK-(α -Me-Phe)
50		(AC ₃ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-(α -Me-Pro)-K-(α -Me-Phe)
51		(AC ₃ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-K-(α -Me-Phe)
52		(AC ₃ C)-V-(AC ₃ C)-EIQ-(α -Me-2,6-F-Phe)-M-HQ-Har-AK-(α -Me-Phe)
53		(AC ₃ C)-V-(AC ₃ C)-EIQ-(α -Me-2,6-F-Phe)-M-HQ-Har-(α -Me-Pro)-K-(α -Me-Phe)
54		(AC ₃ C)-V-(AC ₃ C)-EIQ-(α -Me-2,6-F-Phe)-M-HQ-Har-Aib-K-(α -Me-Phe)

[0151]

[0152] C : 제조된 단쇄 펩티드 목록

Seq. ID. No.	단쇄 펩티드의 서열
55	Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-AK-(α -Me-2F-Phe)
56	Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-(α -Me-Pro)-K-(α -Me-2F-Phe)
57	Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-Aib-K-(α -Me-2F-Phe)
58	(AC ₃ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-AK-(α -Me-2F-Phe)
59	(AC ₃ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-(α -Me-Pro)-K-(α -Me-2F-Phe)
60	(AC ₃ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-Aib-K-(α -Me-2F-Phe)
61	Aib-V-(AC ₃ C)-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-AK-(α -Me-2F-Phe)
62	Aib-V-(AC ₃ C)-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-(α -Me-Pro)-K-(α -Me-2F-Phe)
63	Aib-V-(AC ₃ C)-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-Aib-K-(α -Me-2F-Phe)
64	(AC ₃ C)-V-(AC ₃ C)-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-AK-(α -Me-2F-Phe)
65	(AC ₃ C)-V-(AC ₃ C)-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-(α -Me-Pro)-K-(α -Me-2F-Phe)
66	(AC ₃ C)-V-(AC ₃ C)-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-Aib-K-(α -Me-2F-Phe)
67	(AC ₃ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-AK-(α -Me-2F-Phe)
68	(AC ₃ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-(α -Me-Pro)-K-(α -Me-2F-Phe)
69	(AC ₃ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-Aib-K-(α -Me-2F-Phe)
70	Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-A-K(비오틴)-(α -Me-2F-Phe)
71	Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-AK-(α -Me-2F-Phe)
72	Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-(α -Me-Pro)-K-(α -Me-2F-Phe)
73	Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-K-(α -Me-2F-Phe)
74	(AC ₃ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-AK-(α -Me-2F-Phe)
75	(AC ₃ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-(α -Me-Pro)-K-(α -Me-2F-Phe)
76	(AC ₃ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-K-(α -Me-2F-Phe)
77	Aib-V-(AC ₃ C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-AK-(α -Me-2F-Phe)
78	Aib-V-(AC ₃ C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-(α -Me-Pro)-K-(α -Me-2F-Phe)
79	Aib-V-(AC ₃ C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-K-(α -Me-2F-Phe)
80	(AC ₃ C)-V-(AC ₃ C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-AK-(α -Me-2F-Phe)
81	(AC ₃ C)-V-(AC ₃ C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-(α -Me-Pro)-K-(α -Me-2F-Phe)
82	(AC ₃ C)-V-(AC ₃ C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-K-(α -Me-2F-Phe)
83	(AC ₃ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-AK-(α -Me-2F-Phe)
84	(AC ₃ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-(α -Me-Pro)-K-(α -Me-2F-Phe)
85	(AC ₃ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-K-(α -Me-2F-Phe)
86	(AC ₃ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-H-(Abu(CN))-Har-AK-(α -Me-2F-Phe)
87	Aib-V-(AC ₆ C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-AK-(α -Me-2F-Phe)
88	Aib-V-(AC ₆ C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-(α -Me-Pro)-K-(α -Me-2F-Phe)
89	Aib-V-(AC ₆ C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-K-(α -Me-2F-Phe)

[0153]

[0154] D : 제조된 단쇄 펩티드 목록

Seq. No.	ID.	단쇄 펩티드 서열
90		Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-AK-(α -Me-2,6-F-Phe)
91		Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-(α -Me-Pro)-K-(α -Me-2,6-F-Phe)
92		Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-Aib-K-(α -Me-2,6-F-Phe)
93		(AC ₃ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-AK-(α -Me-2,6-F-Phe)
94		(AC ₃ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-(α -Me-Pro)-K-(α -Me-2,6-F-Phe)
95		(AC ₃ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-Aib-K-(α -Me-2,6-F-Phe)
96		Aib-V-(AC ₅ C)-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-AK-(α -Me-2,6-F-Phe)
97		Aib-V-(AC ₅ C)-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-(α -Me-Pro)-K-(α -Me-2,6-F-Phe)
98		Aib-V-(AC ₅ C)-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-Aib-K-(α -Me-2,6-F-Phe)
99		(AC ₅ C)-V-(AC ₅ C)-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-AK-(α -Me-2,6-F-Phe)
100		(AC ₅ C)-V-(AC ₅ C)-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-(α -Me-Pro)-K-(α -Me-2,6-F-Phe)
101		(AC ₅ C)-V-(AC ₅ C)-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-Aib-K-(α -Me-2,6-F-Phe)
102		(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-AK-(α -Me-2,6-F-Phe)
103		(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-(α -Me-Pro)-K-(α -Me-2,6-F-Phe)
104		(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-Aib-K-(α -Me-2,6-F-Phe)
105		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-AK(비오틸)-(α -Me-2,6-F-Phe)
106		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-AK-(α -Me-2,6-F-Phe)
107		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-(α -Me-Pro)-K-(α -Me-2,6-F-Phe)
108		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-K-(α -Me-2,6-F-Phe)
109		(AC ₃ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-AK-(α -Me-2,6-F-Phe)
110		(AC ₃ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-(α -Me-Pro)-K-(α -Me-2,6-F-Phe)
111		(AC ₃ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-K-(α -Me-2,6-F-Phe)
112		Aib-V-(AC ₅ C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-AK-(α -Me-2,6-F-Phe)
113		Aib-V-(AC ₅ C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-(α -Me-Pro)-K-(α -Me-2,6-F-Phe)
114		Aib-V-(AC ₅ C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-K-(α -Me-2,6-F-Phe)
115		(AC ₅ C)-V-(AC ₅ C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-AK-(α -Me-2,6-F-Phe)
116		(AC ₅ C)-V-(AC ₅ C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-(α -Me-Pro)-K-(α -Me-2,6-F-Phe)
117		(AC ₅ C)-V-(AC ₅ C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-K-(α -Me-2,6-F-Phe)
118		(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-AK-(α -Me-2,6-F-Phe)
119		(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-(α -Me-Pro)-K-(α -Me-2,6-F-Phe)
120		(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-K-(α -Me-2,6-F-Phe)

[0155]

[0156] E : 제조된 단쇄 펩티드 목록

Seq. No.	ID.	단쇄 펩티드 서열
121		Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-A-Cit-(α -Me-2F-Phe)
122		Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-Aib-Cit-(α -Me-2F-Phe)
123		(AC ₃ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-A-Cit-(α -Me-2F-Phe)
124		(AC ₃ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-Aib-Cit-(α -Me-2F-Phe)
125		Aib-V-(AC ₃ C)-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-A-Cit-(α -Me-2F-Phe)
126		Aib-V-(AC ₃ C)-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-Aib-Cit-(α -Me-2F-Phe)
127		(AC ₃ C)-V-(AC ₃ C)-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-A-Cit-(α -Me-2F-Phe)
128		(AC ₃ C)-V-(AC ₃ C)-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-Aib-Cit-(α -Me-2F-Phe)
129		(AC ₃ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-A-Cit-(α -Me-2F-Phe)
130		(AC ₃ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-Aib-Cit-(α -Me-2F-Phe)
131		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-A-Cit-(α -Me-2F-Phe)
132		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-Cit-(α -Me-2F-Phe)
133		(AC ₃ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-A-Cit-(α -Me-2F-Phe)
134		(AC ₃ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-Cit-(α -Me-2F-Phe)
135		Aib-V-(AC ₃ C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-A-Cit-(α -Me-2F-Phe)
136		Aib-V-(AC ₃ C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-Cit-(α -Me-2F-Phe)
137		(AC ₃ C)-V-(AC ₃ C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-A-Cit-(α -Me-2F-Phe)
138		(AC ₃ C)-V-(AC ₃ C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-Cit-(α -Me-2F-Phe)
139		(AC ₃ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-A-Cit-(α -Me-2F-Phe)
140		(AC ₃ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-Cit-(α -Me-2F-Phe)
141		Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-A-Cit-(α -Me-2,6-F-Phe)
142		Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-Aib-Cit-(α -Me-2,6-F-Phe)
143		(AC ₃ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-A-Cit-(α -Me-2,6-F-Phe)
144		(AC ₃ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-Aib-Cit-(α -Me-2,6-F-Phe)
145		Aib-V-(AC ₃ C)-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-A-Cit-(α -Me-2,6-F-Phe)
146		Aib-V-(AC ₃ C)-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-Aib-Cit-(α -Me-2,6-F-Phe)
147		(AC ₃ C)-V-(AC ₃ C)-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-A-Cit-(α -Me-2,6-F-Phe)
148		(AC ₃ C)-V-(AC ₃ C)-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-Aib-Cit-(α -Me-2,6-F-Phe)
149		(AC ₃ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-A-Cit-(α -Me-2,6-F-Phe)
150		(AC ₃ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-Aib-Cit-(α -Me-2,6-F-Phe)
151		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-A-Cit-(α -Me-2,6-F-Phe)
152		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-Cit-(α -Me-2,6-F-Phe)
153		(AC ₃ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-A-Cit-(α -Me-2,6-F-Phe)
154		(AC ₃ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-Cit-(α -Me-2,6-F-Phe)
155		Aib-V-(AC ₃ C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-A-Cit-(α -Me-2,6-F-Phe)
156		Aib-V-(AC ₃ C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-Cit-(α -Me-2,6-F-Phe)
157		(AC ₃ C)-V-(AC ₃ C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-A-Cit-(α -Me-2,6-F-Phe)
158		(AC ₃ C)-V-(AC ₃ C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-Cit-(α -Me-2,6-F-Phe)
159		(AC ₃ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-A-Cit-(α -Me-2,6-F-Phe)
160		(AC ₃ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-Cit-(α -Me-2,6-F-Phe)

[0157]

[0158] F : 제조된 단쇄 펩티드 목록

Seq. No.	ID.	단쇄 펩티드 서열
161		Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-A-Aib-(α -Me-2F-Phe)
162		Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-Aib-Aib-(α -Me-2F-Phe)
163		(AC ₃ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-A-Aib-(α -Me-2F-Phe)
164		(AC ₃ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-Aib-Aib-(α -Me-2F-Phe)
165		Aib-V-(AC ₃ C)-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-A-Aib-(α -Me-2F-Phe)
166		Aib-V-(AC ₃ C)-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-Aib-Aib-(α -Me-2F-Phe)
167		(AC ₃ C)-V-(AC ₃ C)-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-A-Aib-(α -Me-2F-Phe)
168		(AC ₃ C)-V-(AC ₃ C)-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-Aib-Aib-(α -Me-2F-Phe)
169		(AC ₃ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-A-Aib-(α -Me-2F-Phe)
170		(AC ₃ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-Aib-Aib-(α -Me-2F-Phe)
171		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-A-Aib-(α -Me-2F-Phe)
172		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-Aib-(α -Me-2F-Phe)
173		(AC ₃ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-A-Aib-(α -Me-2F-Phe)
174		(AC ₃ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-Aib-(α -Me-2F-Phe)
175		Aib-V-(AC ₃ C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-A-Aib-(α -Me-2F-Phe)
176		Aib-V-(AC ₃ C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-Aib-(α -Me-2F-Phe)
177		(AC ₃ C)-V-(AC ₃ C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-A-Aib-(α -Me-2F-Phe)
178		(AC ₃ C)-V-(AC ₃ C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-Aib-(α -Me-2F-Phe)
179		(AC ₃ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-A-Aib-(α -Me-2F-Phe)
180		(AC ₃ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-Aib-(α -Me-2F-Phe)
181		Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-A-Aib-(α -Me-2,6-F-Phe)
182		Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-Aib-Aib-(α -Me-2,6-F-Phe)
183		(AC ₃ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-A-Aib-(α -Me-2,6-F-Phe)
184		(AC ₃ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-Aib-Aib-(α -Me-2,6-F-Phe)
185		Aib-V-(AC ₃ C)-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-A-Aib-(α -Me-2,6-F-Phe)
186		Aib-V-(AC ₃ C)-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-Aib-Aib-(α -Me-2,6-F-Phe)
187		(AC ₃ C)-V-(AC ₃ C)-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-A-Aib-(α -Me-2,6-F-Phe)
188		(AC ₃ C)-V-(AC ₃ C)-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-Aib-Aib-(α -Me-2,6-F-Phe)
189		(AC ₃ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-A-Aib-(α -Me-2,6-F-Phe)
190		(AC ₃ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-Aib-Aib-(α -Me-2,6-F-Phe)
191		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-A-Aib-(α -Me-2,6-F-Phe)
192		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-Aib-(α -Me-2,6-F-Phe)
193		(AC ₃ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-A-Aib-(α -Me-2,6-F-Phe)
194		(AC ₃ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-Aib-(α -Me-2,6-F-Phe)
195		Aib-V-(AC ₃ C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-A-Aib-(α -Me-2,6-F-Phe)
196		Aib-V-(AC ₃ C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-Aib-(α -Me-2,6-F-Phe)
197		(AC ₃ C)-V-(AC ₃ C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-A-Aib-(α -Me-2,6-F-Phe)
198		(AC ₃ C)-V-(AC ₃ C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-Aib-(α -Me-2,6-F-Phe)
199		(AC ₃ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-A-Aib-(α -Me-2,6-F-Phe)
200		(AC ₃ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-Aib-(α -Me-2,6-F-Phe)

[0159]

[0160] G : 제조된 단쇄 펩티드 목록

Seq. No.	ID.	단쇄 펩티드 서열
201		Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-A-(α -Me-2,6-F-Phe)-(α -Me-2F-Phe)
202		Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-Aib-(α -Me-2,6-F-Phe)-(α -Me-2F-Phe)
203		(AC ₃ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-A-(α -Me-2,6-F-Phe)-(α -Me-2F-Phe)
204		(AC ₃ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-Aib-(α -Me-2,6-F-Phe)-(α -Me-2F-Phe)
205		Aib-V-(AC ₅ C)-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-A-(α -Me-2,6-F-Phe)-(α -Me-2F-Phe)
206		Aib-V-(AC ₅ C)-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-Aib-(α -Me-2,6-F-Phe)-(α -Me-2F-Phe)
207		(AC ₅ C)-V-(AC ₅ C)-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-A-(α -Me-2,6-F-Phe)-(α -Me-2F-Phe)
208		(AC ₅ C)-V-(AC ₅ C)-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-Aib-(α -Me-2,6-F-Phe)-(α -Me-2F-Phe)
209		(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-A-(α -Me-2,6-F-Phe)-(α -Me-2F-Phe)
210		(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-Aib-(α -Me-2,6-F-Phe)-(α -Me-2F-Phe)
211		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-A-(α -Me-2,6-F-Phe)-(α -Me-2F-Phe)
212		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-(α -Me-2,6-F-Phe)-(α -Me-2F-Phe)
213		(AC ₃ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-A-(α -Me-2,6-F-Phe)-(α -Me-2F-Phe)
214		(AC ₃ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-(α -Me-2,6-F-Phe)-(α -Me-2F-Phe)
215		Aib-V-(AC ₅ C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-A-(α -Me-2,6-F-Phe)-(α -Me-2F-Phe)
216		Aib-V-(AC ₅ C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-(α -Me-2,6-F-Phe)-(α -Me-2F-Phe)
217		(AC ₅ C)-V-(AC ₅ C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-A-(α -Me-2,6-F-Phe)-(α -Me-2F-Phe)
218		(AC ₅ C)-V-(AC ₅ C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-(α -Me-2,6-F-Phe)-(α -Me-2F-Phe)
219		(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-A-(α -Me-2,6-F-Phe)-(α -Me-2F-Phe)
220		(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-(α -Me-2,6-F-Phe)-(α -Me-2F-Phe)
221		Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-A-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe)
222		Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-Aib-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe)
223		(AC ₃ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-A-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe)

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224	(AC ₃ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-Aib-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe)
225	Aib-V-(AC ₃ C)-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-A-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe)
226	Aib-V-(AC ₃ C)-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-Aib-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe)
227	(AC ₃ C)-V-(AC ₃ C)-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-A-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe)
228	(AC ₃ C)-V-(AC ₃ C)-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-Aib-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe)
229	(AC ₃ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-A-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe)
230	(AC ₃ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-Aib-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe)
231	Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-A-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe)
232	Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe)
233	(AC ₃ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-A-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe)
234	(AC ₃ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe)
235	Aib-V-(AC ₃ C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-A-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe)
236	Aib-V-(AC ₃ C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe)
237	(AC ₃ C)-V-(AC ₃ C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-A-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe)
238	(AC ₃ C)-V-(AC ₃ C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe)
239	(AC ₃ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-A-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe)
240	(AC ₃ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe)

[0162]

[0163] 2H : 제조된 단쇄 펩티드 목록

Seq. No.	ID.	단쇄 펩티드 서열
241		Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-A-Arg(NO ₂)-(α -Me-2F-Phe)
242		Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-Aib-Arg(NO ₂)-(α -Me-2F-Phe)
243		(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-A-Arg(NO ₂)-(α -Me-2F-Phe)
244		(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-Aib-Arg(NO ₂)-(α -Me-2F-Phe)
245		Aib-V-(AC ₅ C)-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-A-Arg(NO ₂)-(α -Me-2F-Phe)
246		Aib-V-(AC ₅ C)-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-Aib-Arg(NO ₂)-(α -Me-2F-Phe)
247		(AC ₅ C)-V-(AC ₅ C)-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-A-Arg(NO ₂)-(α -Me-2F-Phe)
248		(AC ₅ C)-V-(AC ₅ C)-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-Aib-Arg(NO ₂)-(α -Me-2F-Phe)
249		(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-A-Arg(NO ₂)-(α -Me-2F-Phe)
250		(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-Aib-Arg(NO ₂)-(α -Me-2F-Phe)
251		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-A-Arg(NO ₂)-(α -Me-2F-Phe)
252		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-Arg(NO ₂)-(α -Me-2F-Phe)
253		(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-A-Arg(NO ₂)-(α -Me-2F-Phe)
254		(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-Arg(NO ₂)-(α -Me-2F-Phe)
255		Aib-V-(AC ₅ C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-A-Arg(NO ₂)-(α -Me-2F-Phe)
256		Aib-V-(AC ₅ C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-Arg(NO ₂)-(α -Me-2F-Phe)
257		(AC ₅ C)-V-(AC ₅ C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-A-Arg(NO ₂)-(α -Me-2F-Phe)
258		(AC ₅ C)-V-(AC ₅ C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-Arg(NO ₂)-(α -Me-2F-Phe)
259		(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-A-Arg(NO ₂)-(α -Me-2F-Phe)
260		(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-Arg(NO ₂)-(α -Me-2F-Phe)
261		Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-A-Arg(NO ₂)-(α -Me-2,6-F-Phe)
262		Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-Aib-Arg(NO ₂)-(α -Me-2,6-F-Phe)
263		(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-A-Arg(NO ₂)-(α -Me-2,6-F-Phe)
264		(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-Aib-Arg(NO ₂)-(α -Me-2,6-F-Phe)
265		Aib-V-(AC ₅ C)-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-A-Arg(NO ₂)-(α -Me-2,6-F-Phe)
266		Aib-V-(AC ₅ C)-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-Aib-Arg(NO ₂)-(α -Me-2,6-F-Phe)
267		(AC ₅ C)-V-(AC ₅ C)-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-A-Arg(NO ₂)-(α -Me-2,6-F-Phe)
268		(AC ₅ C)-V-(AC ₅ C)-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-Aib-Arg(NO ₂)-(α -Me-2,6-F-Phe)
269		(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-A-Arg(NO ₂)-(α -Me-2,6-F-Phe)
270		(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-Aib-Arg(NO ₂)-(α -Me-2,6-F-Phe)
271		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-A-Arg(NO ₂)-(α -Me-2,6-F-Phe)
272		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-Arg(NO ₂)-(α -Me-2,6-F-Phe)
273		(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-A-Arg(NO ₂)-(α -Me-2,6-F-Phe)
274		(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-Arg(NO ₂)-(α -Me-2,6-F-Phe)
275		Aib-V-(AC ₅ C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-A-Arg(NO ₂)-(α -Me-2,6-F-Phe)
276		Aib-V-(AC ₅ C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-Arg(NO ₂)-(α -Me-2,6-F-Phe)
277		(AC ₅ C)-V-(AC ₅ C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-A-Arg(NO ₂)-(α -Me-2,6-F-Phe)

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278	(AC ₅ C)-V-(AC ₅ C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-Arg(NO ₂)-(α -Me-2,6-F-Phe)
279	(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-A-Arg(NO ₂)-(α -Me-2,6-F-Phe)
280	(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-Arg(NO ₂)-(α -Me-2,6-F-Phe)

[0165]

[0166]

I : 제조된 단쇄 펩티드 목록

Seq. No.	ID.	단쇄 펩티드 서열
281		Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Orn-A-Cit-(α -Me-2F-Phe)
282		Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Orn-Aib-Cit-(α -Me-2F-Phe)
283		(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Orn-A-Cit-(α -Me-2F-Phe)
284		(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Orn-Aib-Cit-(α -Me-2F-Phe)
285		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-A-Cit-(α -Me-2F-Phe)
286		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-Aib-Cit-(α -Me-2F-Phe)
287		(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-A-Cit-(α -Me-2F-Phe)
288		(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-Aib-Cit-(α -Me-2F-Phe)
289		Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Orn-A-Cit-(α -Me-2,6-F-Phe)
290		Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Orn-Aib-Cit-(α -Me-2,6-F-Phe)
291		(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Orn-A-Cit-(α -Me-2,6-F-Phe)
292		(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Orn-Aib-Cit-(α -Me-2,6-F-Phe)
293		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-A-Cit-(α -Me-2,6-F-Phe)
294		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-Aib-Cit-(α -Me-2,6-F-Phe)
295		(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-A-Cit-(α -Me-2,6-F-Phe)
296		(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-Aib-Cit-(α -Me-2,6-F-Phe)
297		Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Orn-A-Aib-(α -Me-2F-Phe)
298		Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Orn-Aib-Aib-(α -Me-2F-Phe)
299		(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Orn-A-Aib-(α -Me-2F-Phe)
300		(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Orn-Aib-Aib-(α -Me-2F-Phe)
301		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-A-Aib-(α -Me-2F-Phe)
302		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-Aib-Aib-(α -Me-2F-Phe)
303		(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-A-Aib-(α -Me-2F-Phe)
304		(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-Aib-Aib-(α -Me-2F-Phe)
305		Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Orn-A-Aib-(α -Me-2,6-F-Phe)
306		Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Orn-Aib-Aib-(α -Me-2,6-F-Phe)
307		(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Orn-A-Aib-(α -Me-2,6-F-Phe)
308		(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Orn-Aib-Aib-(α -Me-2,6-F-Phe)
309		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-A-Aib-(α -Me-2,6-F-Phe)
310		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-Aib-Aib-(α -Me-2,6-F-Phe)
311		(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-A-Aib-(α -Me-2,6-F-Phe)
312		(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-Aib-Aib-(α -Me-2,6-F-Phe)
313		Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Orn-A-(α -Me-2,6-F-Phe)-(α -Me-2F-Phe)
314		Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Orn-Aib-(α -Me-2,6-F-Phe)-(α -Me-2F-Phe)
315		(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Orn-A-(α -Me-2,6-F-Phe)-(α -Me-2F-Phe)
316		(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Orn-Aib-(α -Me-2,6-F-Phe)-(α -Me-2F-Phe)
317		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-A-(α -Me-2,6-F-Phe)-(α -Me-2F-Phe)
318		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-Aib-(α -Me-2,6-F-Phe)-(α -Me-2F-Phe)
319		(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-A-(α -Me-2,6-F-Phe)-(α -Me-2F-Phe)

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320	(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-Aib-(α -Me-2,6-F-Phe)-(α -Me-2F-Phe)
321	Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Orn-A-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe)
322	Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Orn-Aib-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe)
323	(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Orn-A-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe)
324	(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Orn-Aib-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe)
325	Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-A-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe)
326	Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-Aib-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe)
327	(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-A-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe)
328	(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-Aib-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe)
329	Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Orn-A-Arg(NO ₂)-(α -Me-2F-Phe)
330	Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Orn-Aib-Arg(NO ₂)-(α -Me-2F-Phe)
331	(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Orn-A-Arg(NO ₂)-(α -Me-2F-Phe)
332	(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Orn-Aib-Arg(NO ₂)-(α -Me-2F-Phe)
333	Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-A-Arg(NO ₂)-(α -Me-2F-Phe)
334	Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-Aib-Arg(NO ₂)-(α -Me-2F-Phe)
335	(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-A-Arg(NO ₂)-(α -Me-2F-Phe)
336	(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-Aib-Arg(NO ₂)-(α -Me-2F-Phe)
337	Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Orn-A-Arg(NO ₂)-(α -Me-2,6-F-Phe)
338	Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Orn-Aib-Arg(NO ₂)-(α -Me-2,6-F-Phe)
339	(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Orn-A-Arg(NO ₂)-(α -Me-2,6-F-Phe)
340	(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Orn-Aib-Arg(NO ₂)-(α -Me-2,6-F-Phe)
341	Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-A-Arg(NO ₂)-(α -Me-2,6-F-Phe)
342	Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-Aib-Arg(NO ₂)-(α -Me-2,6-F-Phe)
343	(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-A-Arg(NO ₂)-(α -Me-2,6-F-Phe)
344	(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-Aib-Arg(NO ₂)-(α -Me-2,6-F-Phe)

[0168]

[0169]

J : 제조된 단쇄 펩티드 목록

Seq. No.	ID.	단쇄 펩티드 서열
345		Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Cit-A-Cit-(α -Me-2F-Phe)
346		Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Cit-Aib-Cit-(α -Me-2F-Phe)
347		(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Cit-A-Cit-(α -Me-2F-Phe)
348		(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Cit-Aib-Cit-(α -Me-2F-Phe)
349		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Cit-A-Cit-(α -Me-2F-Phe)
350		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Cit-Aib-Cit-(α -Me-2F-Phe)
351		(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Cit-A-Cit-(α -Me-2F-Phe)
352		(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Cit-Aib-Cit-(α -Me-2F-Phe)
353		Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Cit-A-Cit-(α -Me-2,6-F-Phe)
354		Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Cit-Aib-Cit-(α -Me-2,6-F-Phe)
355		(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Cit-A-Cit-(α -Me-2,6-F-Phe)
356		(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Cit-Aib-Cit-(α -Me-2,6-F-Phe)
357		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Cit-A-Cit-(α -Me-2,6-F-Phe)
358		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Cit-Aib-Cit-(α -Me-2,6-F-Phe)
359		(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Cit-A-Cit-(α -Me-2,6-F-Phe)
360		(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Cit-Aib-Cit-(α -Me-2,6-F-Phe)
361		Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Cit-A-Aib-(α -Me-2F-Phe)
362		Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Cit-Aib-Aib-(α -Me-2F-Phe)
363		(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Cit-A-Aib-(α -Me-2F-Phe)
364		(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Cit-Aib-Aib-(α -Me-2F-Phe)
365		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Cit-A-Aib-(α -Me-2F-Phe)
366		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Cit-Aib-Aib-(α -Me-2F-Phe)
367		(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Cit-A-Aib-(α -Me-2F-Phe)
368		(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Cit-Aib-Aib-(α -Me-2F-Phe)
369		Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Cit-A-Aib-(α -Me-2,6-F-Phe)
370		Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Cit-Aib-Aib-(α -Me-2,6-F-Phe)
371		(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Cit-A-Aib-(α -Me-2,6-F-Phe)
372		(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Cit-Aib-Aib-(α -Me-2,6-F-Phe)
373		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Cit-A-Aib-(α -Me-2,6-F-Phe)
374		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Cit-Aib-Aib-(α -Me-2,6-F-Phe)
375		(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Cit-A-Aib-(α -Me-2,6-F-Phe)
376		(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Cit-Aib-Aib-(α -Me-2,6-F-Phe)
377		Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Cit-A-(α -Me-2,6-F-Phe)-(α -Me-2F-Phe)
378		Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Cit-Aib-(α -Me-2,6-F-Phe)-(α -Me-2F-Phe)
379		(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Cit-A-(α -Me-2,6-F-Phe)-(α -Me-2F-Phe)
380		(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Cit-Aib-(α -Me-2,6-F-Phe)-(α -Me-2F-Phe)
381		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Cit-A-(α -Me-2,6-F-Phe)-(α -Me-2F-Phe)
382		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Cit-Aib-(α -Me-2,6-F-Phe)-(α -Me-2F-Phe)
383		(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Cit-A-(α -Me-2,6-F-Phe)-(α -Me-2F-Phe)

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384	(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Cit-Aib-(α -Me-2,6-F-Phe)-(α -Me-2F-Phe)
385	Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Cit-A-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe)
386	Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Cit-Aib-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe)
387	(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Cit-A-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe)
388	(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Cit-Aib-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe)
389	Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Cit-A-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe)
390	Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Cit-Aib-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe)
391	(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Cit-A-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe)
392	(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Cit-Aib-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe)
393	Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Cit-A-Arg(NO ₂)-(α -Me-2F-Phe)
394	Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Cit-Aib-Arg(NO ₂)-(α -Me-2F-Phe)
395	(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Cit-A-Arg(NO ₂)-(α -Me-2F-Phe)
396	(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Cit-Aib-Arg(NO ₂)-(α -Me-2F-Phe)
397	Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Cit-A-Arg(NO ₂)-(α -Me-2F-Phe)
398	Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Cit-Aib-Arg(NO ₂)-(α -Me-2F-Phe)
399	(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Cit-A-Arg(NO ₂)-(α -Me-2F-Phe)
400	(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Cit-Aib-Arg(NO ₂)-(α -Me-2F-Phe)
401	Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Cit-A-Arg(NO ₂)-(α -Me-2,6-F-Phe)
402	Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Cit-Aib-Arg(NO ₂)-(α -Me-2,6-F-Phe)
403	(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Cit-A-Arg(NO ₂)-(α -Me-2,6-F-Phe)
404	(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Cit-Aib-Arg(NO ₂)-(α -Me-2,6-F-Phe)
405	Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Cit-A-Arg(NO ₂)-(α -Me-2,6-F-Phe)
406	Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Cit-Aib-Arg(NO ₂)-(α -Me-2,6-F-Phe)
407	(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Cit-A-Arg(NO ₂)-(α -Me-2,6-F-Phe)
408	(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Cit-Aib-Arg(NO ₂)-(α -Me-2,6-F-Phe)

[0171]

[0172] K : 제조된 단쇄 펩티드 목록

Seq. No.	ID.	단쇄 펩티드 서열
409		Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(HoCit)-A-Cit-(α -Me-2F-Phe)
410		Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(HoCit)-Aib-Cit-(α -Me-2F-Phe)
411		(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(HoCit)-A-Cit-(α -Me-2F-Phe)
412		(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(HoCit)-Aib-Cit-(α -Me-2F-Phe)
413		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(HoCit)-A-Cit-(α -Me-2F-Phe)
414		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(HoCit)-Aib-Cit-(α -Me-2F-Phe)
415		(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(HoCit)-A-Cit-(α -Me-2F-Phe)
416		(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(HoCit)-Aib-Cit-(α -Me-2F-Phe)
417		Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(HoCit)-A-Cit-(α -Me-2,6-F-Phe)
418		Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(HoCit)-Aib-Cit-(α -Me-2,6-F-Phe)
419		(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(HoCit)-A-Cit-(α -Me-2,6-F-Phe)
420		(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(HoCit)-Aib-Cit-(α -Me-2,6-F-Phe)
421		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(HoCit)-A-Cit-(α -Me-2,6-F-Phe)
422		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(HoCit)-Aib-Cit-(α -Me-2,6-F-Phe)
423		(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(HoCit)-A-Cit-(α -Me-2,6-F-Phe)
424		(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(HoCit)-Aib-Cit-(α -Me-2,6-F-Phe)
425		Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(HoCit)-A-Aib-(α -Me-2F-Phe)
426		Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(HoCit)-Aib-Aib-(α -Me-2F-Phe)
427		(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(HoCit)-A-Aib-(α -Me-2F-Phe)
428		(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(HoCit)-Aib-Aib-(α -Me-2F-Phe)
429		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(HoCit)-A-Aib-(α -Me-2F-Phe)
430		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(HoCit)-Aib-Aib-(α -Me-2F-Phe)
431		(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(HoCit)-A-Aib-(α -Me-2F-Phe)
432		(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(HoCit)-Aib-Aib-(α -Me-2F-Phe)
433		Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(HoCit)-A-Aib-(α -Me-2,6-F-Phe)
434		Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(HoCit)-Aib-Aib-(α -Me-2,6-F-Phe)
435		(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(HoCit)-A-Aib-(α -Me-2,6-F-Phe)
436		(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(HoCit)-Aib-Aib-(α -Me-2,6-F-Phe)
437		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(HoCit)-A-Aib-(α -Me-2,6-F-Phe)
438		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(HoCit)-Aib-Aib-(α -Me-2,6-F-Phe)
439		(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(HoCit)-A-Aib-(α -Me-2,6-F-Phe)
440		(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(HoCit)-Aib-Aib-(α -Me-2,6-F-Phe)
441		Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(HoCit)-A-(α -Me-2,6-F-Phe)-(α -Me-2F-Phe)
442		Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(HoCit)-Aib-(α -Me-2,6-F-Phe)-(α -Me-2F-Phe)
443		(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(HoCit)-A-(α -Me-2,6-F-Phe)-(α -Me-2F-Phe)
444		(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(HoCit)-Aib-(α -Me-2,6-F-Phe)-(α -Me-2F-Phe)
445		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(HoCit)-A-(α -Me-2,6-F-Phe)-(α -Me-2F-Phe)
446		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(HoCit)-Aib-(α -Me-2,6-F-Phe)-(α -Me-2F-Phe)

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447	(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(HoCit)-A-(α -Me-2,6-F-Phe)-(α -Me-2F-Phe)
448	(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(HoCit)-Aib-(α -Me-2,6-F-Phe)-(α -Me-2F-Phe)
449	Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(HoCit)-A-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe)
450	Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(HoCit)-Aib-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe)
451	(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(HoCit)-A-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe)
452	(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(HoCit)-Aib-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe)
453	Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(HoCit)-A-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe)
454	Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(HoCit)-Aib-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe)
455	(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(HoCit)-A-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe)
456	(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(HoCit)-Aib-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe)
457	Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(HoCit)-A-Arg(NO ₂)-(α -Me-2F-Phe)
458	Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(HoCit)-Aib-Arg(NO ₂)-(α -Me-2F-Phe)
459	(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(HoCit)-A-Arg(NO ₂)-(α -Me-2F-Phe)
460	(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(HoCit)-Aib-Arg(NO ₂)-(α -Me-2F-Phe)
461	Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(HoCit)-A-Arg(NO ₂)-(α -Me-2F-Phe)
462	Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(HoCit)-Aib-Arg(NO ₂)-(α -Me-2F-Phe)
463	(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(HoCit)-A-Arg(NO ₂)-(α -Me-2F-Phe)
464	(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(HoCit)-Aib-Arg(NO ₂)-(α -Me-2F-Phe)
465	Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(HoCit)-A-Arg(NO ₂)-(α -Me-2,6-F-Phe)
466	Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(HoCit)-Aib-Arg(NO ₂)-(α -Me-2,6-F-Phe)
467	(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(HoCit)-A-Arg(NO ₂)-(α -Me-2,6-F-Phe)
468	(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(HoCit)-Aib-Arg(NO ₂)-(α -Me-2,6-F-Phe)
469	Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(HoCit)-A-Arg(NO ₂)-(α -Me-2,6-F-Phe)
470	Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(HoCit)-Aib-Arg(NO ₂)-(α -Me-2,6-F-Phe)
471	(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(HoCit)-A-Arg(NO ₂)-(α -Me-2,6-F-Phe)
472	(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(HoCit)-Aib-Arg(NO ₂)-(α -Me-2,6-F-Phe)

[0174]

[0175] L : 제조된 단쇄 펩티드 목록

Seq. No.	ID.	단쇄 펩티드 서열
473		Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-A-Cit-(α -Me-2F-Phe)
474		Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-Aib-Cit-(α -Me-2F-Phe)
475		(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-A-Cit-(α -Me-2F-Phe)
476		(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-Aib-Cit-(α -Me-2F-Phe)
477		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-A-Cit-(α -Me-2F-Phe)
478		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-Aib-Cit-(α -Me-2F-Phe)
479		(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-A-Cit-(α -Me-2F-Phe)
480		(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-Aib-Cit-(α -Me-2F-Phe)
481		Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-A-Cit-(α -Me-2,6-F-Phe)
482		Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-Aib-Cit-(α -Me-2,6-F-Phe)
483		(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-A-Cit-(α -Me-2,6-F-Phe)
484		(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-Aib-Cit-(α -Me-2,6-F-Phe)
485		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-A-Cit-(α -Me-2,6-F-Phe)
486		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-Aib-Cit-(α -Me-2,6-F-Phe)
487		(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-A-Cit-(α -Me-2,6-F-Phe)
488		(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-Aib-Cit-(α -Me-2,6-F-Phe)
489		Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-A-Aib-(α -Me-2F-Phe)
490		Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-Aib-Aib-(α -Me-2F-Phe)
491		(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-A-Aib-(α -Me-2F-Phe)
492		(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-Aib-Aib-(α -Me-2F-Phe)
493		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-A-Aib-(α -Me-2F-Phe)
494		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-Aib-Aib-(α -Me-2F-Phe)
495		(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-A-Aib-(α -Me-2F-Phe)
496		(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-Aib-Aib-(α -Me-2F-Phe)

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497	Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-A-Aib-(α -Me-2,6-F-Phe)
498	Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-Aib-Aib-(α -Me-2,6-F-Phe)
499	(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-A-Aib-(α -Me-2,6-F-Phe)
500	(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-Aib-Aib-(α -Me-2,6-F-Phe)
501	Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-A-Aib-(α -Me-2,6-F-Phe)
502	Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-Aib-Aib-(α -Me-2,6-F-Phe)
503	(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-A-Aib-(α -Me-2,6-F-Phe)
504	(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-Aib-Aib-(α -Me-2,6-F-Phe)
505	Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-A-(α -Me-2,6-F-Phe)-(α -Me-2F-Phe)
506	Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-Aib-(α -Me-2,6-F-Phe)-(α -Me-2F-Phe)
507	(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-A-(α -Me-2,6-F-Phe)-(α -Me-2F-Phe)
508	(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-Aib-(α -Me-2,6-F-Phe)-(α -Me-2F-Phe)
509	Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-A-(α -Me-2,6-F-Phe)-(α -Me-2F-Phe)
510	Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-Aib-(α -Me-2,6-F-Phe)-(α -Me-2F-Phe)
511	(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-A-(α -Me-2,6-F-Phe)-(α -Me-2F-Phe)
512	(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-Aib-(α -Me-2,6-F-Phe)-(α -Me-2F-Phe)
513	Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-A-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe)
514	Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-Aib-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe)
515	(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-A-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe)
516	(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-Aib-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe)
517	Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-A-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe)
518	Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-Aib-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe)
519	(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-A-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe)
520	(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-Aib-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe)
521	Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-A-Arg(NO ₂)-(α -Me-2F-Phe)

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522	Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-Aib-Arg(NO ₂)-(α -Me-2F-Phe)
523	(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-A-Arg(NO ₂)-(α -Me-2F-Phe)
524	(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-Aib-Arg(NO ₂)-(α -Me-2F-Phe)
525	Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-A-Arg(NO ₂)-(α -Me-2F-Phe)
526	Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-Aib-Arg(NO ₂)-(α -Me-2F-Phe)
527	(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-A-Arg(NO ₂)-(α -Me-2F-Phe)
528	(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-Aib-Arg(NO ₂)-(α -Me-2F-Phe)
529	Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-A-Arg(NO ₂)-(α -Me-2,6-F-Phe)
530	Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-Aib-Arg(NO ₂)-(α -Me-2,6-F-Phe)
531	(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-A-Arg(NO ₂)-(α -Me-2,6-F-Phe)
532	(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-Aib-Arg(NO ₂)-(α -Me-2,6-F-Phe)
533	Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-A-Arg(NO ₂)-(α -Me-2,6-F-Phe)
534	Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-Aib-Arg(NO ₂)-(α -Me-2,6-F-Phe)
535	(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-A-Arg(NO ₂)-(α -Me-2,6-F-Phe)
536	(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-Aib-Arg(NO ₂)-(α -Me-2,6-F-Phe)

[0178]

[0179] M : 제조된 단쇄 펩티드 목록

Seq. No.	ID.	단쇄 펩티드 서열
537		Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Aib-A-Cit-(α -Me-2F-Phe)
538		Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Aib-Aib-Cit-(α -Me-2F-Phe)
539		(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Aib-A-Cit-(α -Me-2F-Phe)
540		(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Aib-Aib-Cit-(α -Me-2F-Phe)
541		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Aib-A-Cit-(α -Me-2F-Phe)
542		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Aib-Aib-Cit-(α -Me-2F-Phe)
543		(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Aib-A-Cit-(α -Me-2F-Phe)
544		(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Aib-Aib-Cit-(α -Me-2F-Phe)
545		Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Aib-A-Cit-(α -Me-2,6-F-Phe)
546		Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Aib-Aib-Cit-(α -Me-2,6-F-Phe)
547		(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Aib-A-Cit-(α -Me-2,6-F-Phe)
548		(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Aib-Aib-Cit-(α -Me-2,6-F-Phe)
549		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Aib-A-Cit-(α -Me-2,6-F-Phe)
550		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Aib-Aib-Cit-(α -Me-2,6-F-Phe)
551		(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Aib-A-Cit-(α -Me-2,6-F-Phe)
552		(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Aib-Aib-Cit-(α -Me-2,6-F-Phe)
553		Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Aib-A-Aib-(α -Me-2F-Phe)
554		Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Aib-Aib-Aib-(α -Me-2F-Phe)
555		(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Aib-A-Aib-(α -Me-2F-Phe)
556		(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Aib-Aib-Aib-(α -Me-2F-Phe)
557		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Aib-A-Aib-(α -Me-2F-Phe)
558		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Aib-Aib-Aib-(α -Me-2F-Phe)
559		(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Aib-A-Aib-(α -Me-2F-Phe)
560		(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Aib-Aib-Aib-(α -Me-2F-Phe)
561		Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Aib-A-Aib-(α -Me-2,6-F-Phe)
562		Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Aib-Aib-Aib-(α -Me-2,6-F-Phe)
563		(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Aib-A-Aib-(α -Me-2,6-F-Phe)
564		(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Aib-Aib-Aib-(α -Me-2,6-F-Phe)
565		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Aib-A-Aib-(α -Me-2,6-F-Phe)
566		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Aib-Aib-Aib-(α -Me-2,6-F-Phe)
567		(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Aib-A-Aib-(α -Me-2,6-F-Phe)
568		(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Aib-Aib-Aib-(α -Me-2,6-F-Phe)
569		Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Aib-A-(α -Me-2,6-F-Phe)-(α -Me-2F-Phe)
570		Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Aib-Aib-(α -Me-2,6-F-Phe)-(α -Me-2F-Phe)
571		(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Aib-A-(α -Me-2,6-F-Phe)-(α -Me-2F-Phe)
572		(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Aib-Aib-(α -Me-2,6-F-Phe)-(α -Me-2F-Phe)
573		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Aib-A-(α -Me-2,6-F-Phe)-(α -Me-2F-Phe)
574		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Aib-Aib-(α -Me-2,6-F-Phe)-(α -Me-2F-Phe)
575		(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Aib-A-(α -Me-2,6-F-Phe)-(α -Me-2F-Phe)

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576	(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Aib-Aib-(α -Me-2,6-F-Phe)-(α -Me-2F-Phe)
577	Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Aib-A-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe)
578	Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Aib-Aib-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe)
579	(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Aib-A-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe)
580	(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Aib-Aib-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe)
581	Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Aib-A-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe)
582	Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Aib-Aib-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe)
583	(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Aib-A-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe)
584	(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Aib-Aib-(α -Me-2,6-F-Phe)-(α -Me-2,6-F-Phe)
585	Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Aib-A-Arg(NO ₂)-(α -Me-2F-Phe)
586	Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Aib-Aib-Arg(NO ₂)-(α -Me-2F-Phe)
587	(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Aib-A-Arg(NO ₂)-(α -Me-2F-Phe)
588	(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Aib-Aib-Arg(NO ₂)-(α -Me-2F-Phe)
589	Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Aib-A-Arg(NO ₂)-(α -Me-2F-Phe)
590	Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Aib-Aib-Arg(NO ₂)-(α -Me-2F-Phe)
591	(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Aib-A-Arg(NO ₂)-(α -Me-2F-Phe)
592	(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Aib-Aib-Arg(NO ₂)-(α -Me-2F-Phe)
593	Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Aib-A-Arg(NO ₂)-(α -Me-2,6-F-Phe)
594	Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Aib-Aib-Arg(NO ₂)-(α -Me-2,6-F-Phe)
595	(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Aib-A-Arg(NO ₂)-(α -Me-2,6-F-Phe)
596	(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Aib-Aib-Arg(NO ₂)-(α -Me-2,6-F-Phe)
597	Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Aib-A-Arg(NO ₂)-(α -Me-2,6-F-Phe)
598	Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Aib-Aib-Arg(NO ₂)-(α -Me-2,6-F-Phe)
599	(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Aib-A-Arg(NO ₂)-(α -Me-2,6-F-Phe)
600	(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Aib-Aib-Arg(NO ₂)-(α -Me-2,6-F-Phe)

[0181]

[0182] N : 제조된 단쇄 펩티드 목록

Seq. No.	ID.	단쇄 펩티드 서열
601		Aib-V-Aib-EIQLMHQ-Har-AK-(Bip(OMe))-(APPA)
602		Aib-V-Aib-EIQL-N1e-HQ-Har-AK-(Bip(OMe))-(APPA)
603		(AC ₃ C)-V-Aib-EIQLMHQ-Har-AK-(Bip(OMe))-(APPA)
604		(AC ₃ C)-V-Aib-EIQL-N1e-HQ-Har-AK-(Bip(OMe))-(APPA)
605		(AC ₃ C)-V-Aib-EIQLMHQ-Har-AK-(Bip(OMe))-(APPA)
606		(AC ₃ C)-V-Aib-EIQL-N1e-HQ-Har-AK-(Bip(OMe))-(APPA)
607		Aib-V-(AC ₃ C)-EIQLMHQ-Har-AK-(Bip(OMe))-(APPA)
608		Aib-V-(AC ₃ C)-EIQL-N1e-HQ-Har-AK-(Bip(OMe))-(APPA)
609		(AC ₃ C)-V-(AC ₃ C)-EIQLMHQ-Har-AK-(Bip(OMe))-(APPA)
610		(AC ₃ C)-V-(AC ₃ C)-EIQL-N1e-HQ-Har-AK-(Bip(OMe))-(APPA)
611		(AC ₃ C)-V-(AC ₃ C)-EIQLMHQ-Har-AK-(Bip(OMe))-(APPA)
612		(AC ₃ C)-V-(AC ₃ C)-EIQL-N1e-HQ-Har-AK-(Bip(OMe))-(APPA)
613		Aib-V-Aib-EIQLMHQ-Har(NO ₂)-AK-(Bip(OMe))-(APPA)
614		Aib-V-Aib-EIQL-N1e-HQ-Har(NO ₂)-AK-(Bip(OMe))-(APPA)
615		(AC ₃ C)-V-Aib-EIQLMHQ-Har(NO ₂)-AK-(Bip(OMe))-(APPA)
616		(AC ₃ C)-V-Aib-EIQL-N1e-HQ-Har(NO ₂)-AK-(Bip(OMe))-(APPA)
617		(AC ₃ C)-V-Aib-EIQLMHQ-Har(NO ₂)-AK-(Bip(OMe))-(APPA)
618		(AC ₃ C)-V-Aib-EIQL-N1e-HQ-Har(NO ₂)-AK-(Bip(OMe))-(APPA)
619		Aib-V-(AC ₃ C)-EIQLMHQ-Har(NO ₂)-AK-(Bip(OMe))-(APPA)
620		Aib-V-(AC ₃ C)-EIQL-N1e-HQ-Har(NO ₂)-AK-(Bip(OMe))-(APPA)
621		(AC ₃ C)-V-(AC ₃ C)-EIQLMHQ-Har(NO ₂)-AK-(Bip(OMe))-(APPA)
622		(AC ₃ C)-V-(AC ₃ C)-EIQL-N1e-HQ-Har(NO ₂)-AK-(Bip(OMe))-(APPA)
623		(AC ₃ C)-V-(AC ₃ C)-EIQLMHQ-Har(NO ₂)-AK-(Bip(OMe))-(APPA)
624		(AC ₃ C)-V-(AC ₃ C)-EIQL-N1e-HQ-Har(NO ₂)-AK-(Bip(OMe))-(APPA)
625		Aib-V-Aib-EIQLMHQ-Har(NO ₂)-A-K(비오틴)-(Bip(OMe))-(APPA)
626		Aib-V-Aib-EIQL-N1e-HQ-Har(NO ₂)-A-K(비오틴)-(Bip(OMe))-(APPA)
627		Aib-V-Aib-EIQLMHQ-Har-A-K(비오틴)-(Bip(OMe))-(APPA)
628		Aib-V-Aib-EIQL-N1e-HQ-Har-A-K(비오틴)-(Bip(OMe))-(APPA)
629		Aib-V-Aib-EIQLMHQ-Har(NO ₂)-A-K(-CO-(CH ₂) ₆ -CH ₃)-(Bip(OMe))-(APPA)
630		Aib-V-Aib-EIQL-N1e-HQ-Har(NO ₂)-A-K(-CO-(CH ₂) ₆ -CH ₃)-(Bip(OMe))-(APPA)
631		Aib-V-Aib-EIQLMHQ-Har-A-K(-CO-(CH ₂) ₆ -CH ₃)-(Bip(OMe))-(APPA)
632		Aib-V-Aib-EIQL-N1e-HQ-Har-A-K(-CO-(CH ₂) ₆ -CH ₃)-(Bip(OMe))-(APPA)
633		Aib-V-Aib-EIQLMHQ-Har(NO ₂)-A-K(-CO-(CH ₂) ₈ -CH ₃)-(Bip(OMe))-(APPA)
634		Aib-V-Aib-EIQL-N1e-HQ-Har(NO ₂)-A-K(-CO-(CH ₂) ₈ -CH ₃)-(Bip(OMe))-(APPA)
635		Aib-V-Aib-EIQLMHQ-Har-A-K(-CO-(CH ₂) ₈ -CH ₃)-(Bip(OMe))-(APPA)
636		Aib-V-Aib-EIQL-N1e-HQ-Har-A-K(-CO-(CH ₂) ₈ -CH ₃)-(Bip(OMe))-(APPA)
637		(AC ₃ C)-V-(AC ₃ C)-EIQL-N1e-HQ-Har-A-K(-CO-(CH ₂) ₈ -CH ₃)-(Bip(OMe))-(APPA)
638		(AC ₃ C)-V-(AC ₃ C)-EIQLMHQ-Har(NO ₂)-A-(NMe)K-(Bip(OMe))-(APPA)
639		(AC ₃ C)-V-(AC ₃ C)-EIQL-N1e-HQ-Har(NO ₂)-A-(NMe)K-(Bip(OMe))-(APPA)

[0183]

[0184] 0: 제조된 단쇄 펩티드 목록

Seq. No.	ID.	단쇄 펩티드 서열
640		(AC ₅ C)-V-(AC ₃ C)-EIQL-(NMe)M-HQ-Har-A-K(-CO-(CH ₂) ₈ -CH ₃)-(Bip(OMe))-(APPA)
641		(AC ₅ C)-V-(AC ₃ C)-EIQL-(NMe)N1e-HQ-Har-A-K(-CO-(CH ₂) ₈ -CH ₃)-(Bip(OMe))-(APPA)
642		(AC ₃ C)-V-(AC ₃ C)-EIQL-(NMe)M-HQ-Har(NO ₂)-A-(NMe)K-(Bip(OMe))-(APPA)
643		(AC ₃ C)-V-(AC ₃ C)-EIQL-(NMe)N1e-HQ-Har(NO ₂)-A-(NMe)K-(Bip(OMe))-(APPA)
644		(AC ₅ C)-V-(AC ₃ C)-EIQL-(NMe)M-HQ-Har(NO ₂)-A-(NMe)K-(Bip(OMe))-(APPA)
645		(AC ₅ C)-V-(AC ₃ C)-EIQL-(NMe)N1e-HQ-Har(NO ₂)-A-(NMe)K-(Bip(OMe))-(APPA)
646		Aib-V-Aib-EIQLMHQ-Har-AK-(Bip(OMe))
647		Aib-V-Aib-EIQL-N1e-HQ-Har-AK-(Bip(OMe))
648		(AC ₃ C)-V-Aib-EIQLMHQ-Har-AK-(Bip(OMe))
649		(AC ₃ C)-V-Aib-EIQL-N1e-HQ-Har-AK-(Bip(OMe))
650		(AC ₅ C)-V-Aib-EIQLMHQ-Har-AK-(Bip(OMe))
651		(AC ₅ C)-V-Aib-EIQL-N1e-HQ-Har-AK-(Bip(OMe))
652		Aib-V-(AC ₃ C)-EIQLMHQ-Har-AK-(Bip(OMe))
653		Aib-V-(AC ₃ C)-EIQL-N1e-HQ-Har-AK-(Bip(OMe))
654		(AC ₃ C)-V-(AC ₃ C)-EIQLMHQ-Har-AK-(Bip(OMe))
655		(AC ₃ C)-V-(AC ₃ C)-EIQL-N1e-HQ-Har-AK-(Bip(OMe))
656		(AC ₅ C)-V-(AC ₃ C)-EIQLMHQ-Har-AK-(Bip(OMe))
657		(AC ₅ C)-V-(AC ₃ C)-EIQL-N1e-HQ-Har-AK-(Bip(OMe))
658		Aib-V-Aib-EIQLMHQ-Har(NO ₂)-AK-(Bip(OMe))
659		Aib-V-Aib-EIQL-N1e-HQ-Har(NO ₂)-AK-(Bip(OMe))
660		Aib-V-Aib-EIQLMHQ-Har(NO ₂)-A-K(비오틴)-(Bip(OMe))
661		Aib-V-Aib-EIQL-N1e-HQ-Har(NO ₂)-A-K(비오틴)-(Bip(OMe))
662		Aib-V-Aib-EIQLMHQ-Har-A-K(비오틴)-(Bip(OMe))
663		Aib-V-Aib-EIQL-N1e-HQ-Har-A-K(비오틴)-(Bip(OMe))
664		Aib-V-Aib-EIQLMHQ-Har(NO ₂)-A-K(-CO-(CH ₂) ₆ -CH ₃)-(Bip(OMe))
665		Aib-V-Aib-EIQL-N1e-HQ-Har(NO ₂)-A-K(-CO-(CH ₂) ₆ -CH ₃)-(Bip(OMe))
666		Aib-V-Aib-EIQLMHQ-Har-A-K(-CO-(CH ₂) ₆ -CH ₃)-(Bip(OMe))
667		Aib-V-Aib-EIQL-N1e-HQ-Har-A-K(-CO-(CH ₂) ₆ -CH ₃)-(Bip(OMe))
668		Aib-V-Aib-EIQLMHQ-Har(NO ₂)-A-K(-CO-(CH ₂) ₈ -CH ₃)-(Bip(OMe))
669		Aib-V-Aib-EIQL-N1e-HQ-Har(NO ₂)-A-K(-CO-(CH ₂) ₈ -CH ₃)-(Bip(OMe))
670		Aib-V-Aib-EIQLMHQ-Har-A-K(-CO-(CH ₂) ₈ -CH ₃)-(Bip(OMe))
671		Aib-V-Aib-EIQL-N1e-HQ-Har-A-K(-CO-(CH ₂) ₈ -CH ₃)-(Bip(OMe))
672		(AC ₅ C)-V-(AC ₃ C)-EIQLMHQ-Har-A-K(-CO-(CH ₂) ₈ -CH ₃)-(Bip(OMe))
673		(AC ₅ C)-V-(AC ₃ C)-EIQL-N1e-HQ-Har-A-K(-CO-(CH ₂) ₈ -CH ₃)-(Bip(OMe))
674		(AC ₅ C)-V-(AC ₃ C)-EIQLMHQ-Har(NO ₂)-A-(NMe)K-(Bip(OMe))
675		(AC ₅ C)-V-(AC ₃ C)-EIQL-N1e-HQ-Har(NO ₂)-A-(NMe)K-(Bip(OMe))

[0185]

[0186] P : 제조된 단쇄 펩티드 목록

Seq. No.	ID.	단쇄 펩티드 서열
676		Aib-V-Aib-EIQL-(NMe)M-HQ-Har-A-K(-CO-(CH ₂) ₈ -CH ₃)-(Bip(OMe))
677		Aib-V-Aib-EIQL-(NMe)Nle-HQ-Har-A-K(-CO-(CH ₂) ₈ -CH ₃)-(Bip(OMe))
678		(AC ₃ C)-V-Aib-EIQL-(NMe)M-HQ-Har-A-K(-CO-(CH ₂) ₈ -CH ₃)-(Bip(OMe))
679		(AC ₃ C)-V-Aib-EIQL-(NMe)Nle-HQ-Har-A-K(-CO-(CH ₂) ₈ -CH ₃)-(Bip(OMe))
680		Aib-V-Aib-EIQLMHQ-Har-A-Arg(NO ₂)-(Bip(OMe))-(APPA)
681		Aib-V-Aib-EIQL-Nle-HQ-Har-A-Arg(NO ₂)-(Bip(OMe))-(APPA)
682		(AC ₃ C)-V-Aib-EIQLMHQ-Har-A-Arg(NO ₂)-(Bip(OMe))-(APPA)
683		(AC ₃ C)-V-Aib-EIQL-Nle-HQ-Har-A-Arg(NO ₂)-(Bip(OMe))-(APPA)
684		(AC ₅ C)-V-Aib-EIQLMHQ-Har-A-Arg(NO ₂)-(Bip(OMe))-(APPA)
685		(AC ₅ C)-V-Aib-EIQLMHQ-Har-Aib-Arg(NO ₂)-(Bip(OMe))-(APPA)
686		(AC ₅ C)-V-Aib-EIQL-Nle-HQ-Har-A-Arg(NO ₂)-(Bip(OMe))-(APPA)
687		Aib-V-(AC ₃ C)-EIQLMHQ-Har-A-Arg(NO ₂)-(Bip(OMe))-(APPA)
688		Aib-V-(AC ₃ C)-EIQL-Nle-HQ-Har-A-Arg(NO ₂)-(Bip(OMe))-(APPA)
689		(AC ₃ C)-V-(AC ₃ C)-EIQLMHQ-Har-A-Arg(NO ₂)-(Bip(OMe))-(APPA)
690		(AC ₃ C)-V-(AC ₃ C)-EIQL-Nle-HQ-Har-A-Arg(NO ₂)-(Bip(OMe))-(APPA)
691		(AC ₅ C)-V-(AC ₃ C)-EIQLMHQ-Har-A-Arg(NO ₂)-(Bip(OMe))-(APPA)
692		(AC ₅ C)-V-(AC ₃ C)-EIQL-Nle-HQ-Har-A-Arg(NO ₂)-(Bip(OMe))-(APPA)
693		Aib-V-Aib-EIQ-(α -Me-2, 6-F-Phe)-Nle-HQ-Har-A-Arg(NO ₂)-(Bip(OMe))-(APPA)
694		(AC ₃ C)-V-Aib-EIQ-(α -Me-2, 6-F-Phe)-Nle-HQ-Har-A-Arg(NO ₂)-(Bip(OMe))-(APPA)
695		(AC ₅ C)-V-Aib-EIQ-(α -Me-2, 6-F-Phe)-Nle-HQ-Har-A-Arg(NO ₂)-(Bip(OMe))-(APPA)
696		Aib-V-(AC ₃ C)-EIQ-(α -Me-2, 6-F-Phe)-Nle-HQ-Har-A-Arg(NO ₂)-(Bip(OMe))-(APPA)
697		(AC ₃ C)-V-(AC ₃ C)-EIQ-(α -Me-2, 6-F-Phe)-Nle-HQ-Har-A-Arg(NO ₂)-(Bip(OMe))-(APPA)
698		(AC ₅ C)-V-(AC ₃ C)-EIQ-(α -Me-2, 6-F-Phe)-Nle-HQ-Har-A-Arg(NO ₂)-(Bip(OMe))-(APPA)
699		Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-A-Arg(NO ₂)-(Bip(OMe))-(APPA)
700		(AC ₃ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-A-Arg(NO ₂)-(Bip(OMe))-(APPA)
701		(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-A-Arg(NO ₂)-(Bip(OMe))-(APPA)
702		Aib-V-(AC ₃ C)-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-A-Arg(NO ₂)-(Bip(OMe))-(APPA)
703		(AC ₃ C)-V-(AC ₃ C)-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-A-Arg(NO ₂)-(Bip(OMe))-(APPA)
704		(AC ₅ C)-V-(AC ₃ C)-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-A-Arg(NO ₂)-(Bip(OMe))-(APPA)
705		Aib-V-Aib-EIQ-(α -Me-2, 6-F-Phe)-Nle-HQ-Har-A-Arg(NO ₂)-(α -Me-2, 6-F-Phe)-(APPA)
706		(AC ₃ C)-V-Aib-EIQ-(α -Me-2, 6-F-Phe)-Nle-HQ-Har-A-Arg(NO ₂)-(α -Me-2, 6-F-Phe)-(APPA)
707		(AC ₅ C)-V-Aib-EIQ-(α -Me-2, 6-F-Phe)-Nle-HQ-Har-A-Arg(NO ₂)-(α -Me-2, 6-F-Phe)-(APPA)
708		Aib-V-(AC ₃ C)-EIQ-(α -Me-2, 6-F-Phe)-Nle-HQ-Har-A-Arg(NO ₂)-(α -Me-2, 6-F-Phe)-(APPA)
709		(AC ₃ C)-V-(AC ₃ C)-EIQ-(α -Me-2, 6-F-Phe)-Nle-HQ-Har-A-Arg(NO ₂)-(α -Me-2, 6-F-Phe)-(APPA)
710		(AC ₅ C)-V-(AC ₃ C)-EIQ-(α -Me-2, 6-F-Phe)-Nle-HQ-Har-A-Arg(NO ₂)-(α -Me-2, 6-F-Phe)-(APPA)

[0187]

711	Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-A-Arg(NO ₂)-(α -Me-2,6-F-Phe)-(APPA)
712	(AC ₃ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-A-Arg(NO ₂)-(α -Me-2,6-F-Phe)-(APPA)
713	(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-A-Arg(NO ₂)-(α -Me-2,6-F-Phe)-(APPA)
714	Aib-V-(AC ₃ C)-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-A-Arg(NO ₂)-(α -Me-2,6-F-Phe)-(APPA)
715	(AC ₃ C)-V-(AC ₃ C)-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-A-Arg(NO ₂)-(α -Me-2,6-F-Phe)-(APPA)
716	(AC ₅ C)-V-(AC ₃ C)-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-A-Arg(NO ₂)-(α -Me-2,6-F-Phe)-(APPA)
717	Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-A-Arg(NO ₂)-(α -Me-2F-Phe)-(APPA)
718	(AC ₃ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-A-Arg(NO ₂)-(α -Me-2F-Phe)-(APPA)
719	(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-A-Arg(NO ₂)-(α -Me-2F-Phe)-(APPA)
720	Aib-V-(AC ₃ C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-A-Arg(NO ₂)-(α -Me-2F-Phe)-(APPA)
721	(AC ₃ C)-V-(AC ₃ C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-A-Arg(NO ₂)-(α -Me-2F-Phe)-(APPA)
722	(AC ₅ C)-V-(AC ₃ C)-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-A-Arg(NO ₂)-(α -Me-2F-Phe)-(APPA)
723	Aib-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-A-Arg(NO ₂)-(α -Me-2F-Phe)-(APPA)
724	(AC ₃ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-A-Arg(NO ₂)-(α -Me-2F-Phe)-(APPA)
725	(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-A-Arg(NO ₂)-(α -Me-2F-Phe)-(APPA)
726	(AC ₅ C)-V-Aib-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-Aib-Arg(NO ₂)-(α -Me-2F-Phe)-(APPA)
727	Aib-V-(AC ₃ C)-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-A-Arg(NO ₂)-(α -Me-2F-Phe)-(APPA)
728	(AC ₃ C)-V-(AC ₃ C)-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-A-Arg(NO ₂)-(α -Me-2F-Phe)-(APPA)
729	(AC ₅ C)-V-(AC ₃ C)-EIQ-(α -Me-2F-Phe)-Nle-HQ-Har-A-Arg(NO ₂)-(α -Me-2F-Phe)-(APPA)

[0188]

[0189] Q : 제조된 단쇄 펩티드 목록

Seq. No.	ID.	단쇄 펩티드 서열
730		Aib-V-Aib-EIQL-Nle-HQ-Har-AR-(Bip(OMe))-(APPA)
731		(AC ₅ C)-V-Aib-EIQL-Nle-HQ-Har-AR-(Bip(OMe))-(APPA)
732		Aib-V-Aib-EIQL-Nle-HQ-Har-A-Cit-(Bip(OMe))-(APPA)
733		(AC ₅ C)-V-Aib-EIQL-Nle-HQ-Har-A-Cit-(Bip(OMe))-(APPA)
734		Aib-V-Aib-EIQL-Nle-HQ-Har-A-Aib-(Bip(OMe))-(APPA)
735		(AC ₅ C)-V-Aib-EIQL-Nle-HQ-Har-A-Aib-(Bip(OMe))-(APPA)
736		Aib-V-Aib-EIQL-Nle-HQ-Har-A-(α -Me-2,6-F-Phe)-(Bip(OMe))-(APPA)
737		(AC ₅ C)-V-Aib-EIQL-Nle-HQ-Har-A-(α -Me-2,6-F-Phe)-(Bip(OMe))-(APPA)
738		Aib-V-Aib-EIQL-Nle-HQ-Har-Aib-R-(Bip(OMe))-(APPA)
739		(AC ₅ C)-V-Aib-EIQL-Nle-HQ-Har-Aib-R-(Bip(OMe))-(APPA)
740		Aib-V-Aib-EIQL-Nle-HQ-Har-Aib-Cit-(Bip(OMe))-(APPA)
741		(AC ₅ C)-V-Aib-EIQL-Nle-HQ-Har-Aib-Cit-(Bip(OMe))-(APPA)
742		Aib-V-Aib-EIQL-Nle-HQ-Har-Aib-Aib-(Bip(OMe))-(APPA)
743		(AC ₅ C)-V-Aib-EIQL-Nle-HQ-Har-Aib-Aib-(Bip(OMe))-(APPA)
744		Aib-V-Aib-EIQL-Nle-HQ-Har-Aib-(α -Me-2,6-F-Phe)-(Bip(OMe))-(APPA)
745		(AC ₅ C)-V-Aib-EIQL-Nle-HQ-Har-Aib-(α -Me-2,6-F-Phe)-(Bip(OMe))-(APPA)
746		Aib-V-Aib-EIQL-Nle-HQ-Orn-AR-(Bip(OMe))-(APPA)
747		(AC ₅ C)-V-Aib-EIQL-Nle-HQ-Orn-AR-(Bip(OMe))-(APPA)
748		Aib-V-Aib-EIQL-Nle-HQ-Orn-A-Cit-(Bip(OMe))-(APPA)
749		(AC ₅ C)-V-Aib-EIQL-Nle-HQ-Orn-A-Cit-(Bip(OMe))-(APPA)
750		Aib-V-Aib-EIQL-Nle-HQ-Orn-A-Aib-(Bip(OMe))-(APPA)
751		(AC ₅ C)-V-Aib-EIQL-Nle-HQ-Orn-A-Aib-(Bip(OMe))-(APPA)
752		Aib-V-Aib-EIQL-Nle-HQ-Orn-A-(α -Me-2,6-F-Phe)-(Bip(OMe))-(APPA)
753		(AC ₅ C)-V-Aib-EIQL-Nle-HQ-Orn-A-(α -Me-2,6-F-Phe)-(Bip(OMe))-(APPA)
754		Aib-V-Aib-EIQL-Nle-HQ-Orn-Aib-R-(Bip(OMe))-(APPA)
755		(AC ₅ C)-V-Aib-EIQL-Nle-HQ-Orn-Aib-R-(Bip(OMe))-(APPA)
756		Aib-V-Aib-EIQL-Nle-HQ-Orn-Aib-Cit-(Bip(OMe))-(APPA)
757		(AC ₅ C)-V-Aib-EIQL-Nle-HQ-Orn-Aib-Cit-(Bip(OMe))-(APPA)
758		Aib-V-Aib-EIQL-Nle-HQ-Orn-Aib-Aib-(Bip(OMe))-(APPA)
759		(AC ₅ C)-V-Aib-EIQL-Nle-HQ-Orn-Aib-Aib-(Bip(OMe))-(APPA)
760		Aib-V-Aib-EIQL-Nle-HQ-Orn-Aib-(α -Me-2,6-F-Phe)-(Bip(OMe))-(APPA)
761		(AC ₅ C)-V-Aib-EIQL-Nle-HQ-Orn-Aib-(α -Me-2,6-F-Phe)-(Bip(OMe))-(APPA)
762		Aib-V-Aib-EIQL-Nle-HQ-Cit-AR-(Bip(OMe))-(APPA)
763		(AC ₅ C)-V-Aib-EIQL-Nle-HQ-Cit-AR-(Bip(OMe))-(APPA)
764		Aib-V-Aib-EIQL-Nle-HQ-Cit-A-Cit-(Bip(OMe))-(APPA)
765		(AC ₅ C)-V-Aib-EIQL-Nle-HQ-Cit-A-Cit-(Bip(OMe))-(APPA)
766		Aib-V-Aib-EIQL-Nle-HQ-Cit-A-Aib-(Bip(OMe))-(APPA)
767		(AC ₅ C)-V-Aib-EIQL-Nle-HQ-Cit-A-Aib-(Bip(OMe))-(APPA)
768		Aib-V-Aib-EIQL-Nle-HQ-Cit-A-(α -Me-2,6-F-Phe)-(Bip(OMe))-(APPA)
769		(AC ₅ C)-V-Aib-EIQL-Nle-HQ-Cit-A-(α -Me-2,6-F-Phe)-(Bip(OMe))-(APPA)
770		Aib-V-Aib-EIQL-Nle-HQ-Cit-Aib-R-(Bip(OMe))-(APPA)
771		(AC ₅ C)-V-Aib-EIQL-Nle-HQ-Cit-Aib-R-(Bip(OMe))-(APPA)
772		Aib-V-Aib-EIQL-Nle-HQ-Cit-Aib-Cit-(Bip(OMe))-(APPA)
773		(AC ₅ C)-V-Aib-EIQL-Nle-HQ-Cit-Aib-Cit-(Bip(OMe))-(APPA)
774		Aib-V-Aib-EIQL-Nle-HQ-Cit-Aib-Aib-(Bip(OMe))-(APPA)
775		(AC ₅ C)-V-Aib-EIQL-Nle-HQ-Cit-Aib-Aib-(Bip(OMe))-(APPA)
776		Aib-V-Aib-EIQL-Nle-HQ-Cit-Aib-(α -Me-2,6-F-Phe)-(Bip(OMe))-(APPA)

[0190]

777	(AC ₅ C)-V-Aib-EIQL-Nle-HQ-Cit-Aib-(α-Me-2,6-F-Phe)-(Bip(OMe))-(APPA)
778	Aib-V-Aib-EIQL-Nle-HQ-(HoCit)-AR-(Bip(OMe))-(APPA)
779	(AC ₅ C)-V-Aib-EIQL-Nle-HQ-(HoCit)-AR-(Bip(OMe))-(APPA)
780	Aib-V-Aib-EIQL-Nle-HQ-(HoCit)-A-Cit-(Bip(OMe))-(APPA)
781	(AC ₅ C)-V-Aib-EIQL-Nle-HQ-(HoCit)-A-Cit-(Bip(OMe))-(APPA)
782	Aib-V-Aib-EIQL-Nle-HQ-(HoCit)-A-Aib-(Bip(OMe))-(APPA)
783	(AC ₅ C)-V-Aib-EIQL-Nle-HQ-(HoCit)-A-Aib-(Bip(OMe))-(APPA)
784	Aib-V-Aib-EIQL-Nle-HQ-(HoCit)-A-(α-Me-2,6-F-Phe)-(Bip(OMe))-(APPA)
785	(AC ₅ C)-V-Aib-EIQL-Nle-HQ-(HoCit)-A-(α-Me-2,6-F-Phe)-(Bip(OMe))-(APPA)
786	Aib-V-Aib-EIQL-Nle-HQ-(HoCit)-Aib-R-(Bip(OMe))-(APPA)
787	(AC ₅ C)-V-Aib-EIQL-Nle-HQ-(HoCit)-Aib-R-(Bip(OMe))-(APPA)
788	Aib-V-Aib-EIQL-Nle-HQ-(HoCit)-Aib-Cit-(Bip(OMe))-(APPA)
789	(AC ₅ C)-V-Aib-EIQL-Nle-HQ-(HoCit)-Aib-Cit-(Bip(OMe))-(APPA)
790	Aib-V-Aib-EIQL-Nle-HQ-(HoCit)-Aib-Aib-(Bip(OMe))-(APPA)
791	(AC ₅ C)-V-Aib-EIQL-Nle-HQ-(HoCit)-Aib-Aib-(Bip(OMe))-(APPA)
792	Aib-V-Aib-EIQL-Nle-HQ-(HoCit)-Aib-(α-Me-2,6-F-Phe)-(Bip(OMe))-(APPA)
793	(AC ₅ C)-V-Aib-EIQL-Nle-HQ-(HoCit)-Aib-(α-Me-2,6-F-Phe)-(Bip(OMe))-(APPA)
794	Aib-V-Aib-EIQL-Nle-HQ-(α-Me-2,6-F-Phe)-AR-(Bip(OMe))-(APPA)
795	(AC ₅ C)-V-Aib-EIQL-Nle-HQ-(α-Me-2,6-F-Phe)-AR-(Bip(OMe))-(APPA)
796	Aib-V-Aib-EIQL-Nle-HQ-(α-Me-2,6-F-Phe)-A-Cit-(Bip(OMe))-(APPA)
797	(AC ₅ C)-V-Aib-EIQL-Nle-HQ-(α-Me-2,6-F-Phe)-A-Cit-(Bip(OMe))-(APPA)
798	Aib-V-Aib-EIQL-Nle-HQ-(α-Me-2,6-F-Phe)-A-Aib-(Bip(OMe))-(APPA)
799	(AC ₅ C)-V-Aib-EIQL-Nle-HQ-(α-Me-2,6-F-Phe)-A-Aib-(Bip(OMe))-(APPA)
800	Aib-V-Aib-EIQL-Nle-HQ-(α-Me-2,6-F-Phe)-A-(α-Me-2,6-F-Phe)-(Bip(OMe))-(APPA)
801	(AC ₅ C)-V-Aib-EIQL-Nle-HQ-(α-Me-2,6-F-Phe)-A-(α-Me-2,6-F-Phe)-(Bip(OMe))-(APPA)
802	Aib-V-Aib-EIQL-Nle-HQ-(α-Me-2,6-F-Phe)-Aib-R-(Bip(OMe))-(APPA)
803	(AC ₅ C)-V-Aib-EIQL-Nle-HQ-(α-Me-2,6-F-Phe)-Aib-R-(Bip(OMe))-(APPA)
804	Aib-V-Aib-EIQL-Nle-HQ-(α-Me-2,6-F-Phe)-Aib-Cit-(Bip(OMe))-(APPA)
805	(AC ₅ C)-V-Aib-EIQL-Nle-HQ-(α-Me-2,6-F-Phe)-Aib-Cit-(Bip(OMe))-(APPA)
806	Aib-V-Aib-EIQL-Nle-HQ-(α-Me-2,6-F-Phe)-Aib-Aib-(Bip(OMe))-(APPA)
807	(AC ₅ C)-V-Aib-EIQL-Nle-HQ-(α-Me-2,6-F-Phe)-Aib-Aib-(Bip(OMe))-(APPA)
808	Aib-V-Aib-EIQL-Nle-HQ-(α-Me-2,6-F-Phe)-Aib-(α-Me-2,6-F-Phe)-(Bip(OMe))-(APPA)
809	(AC ₅ C)-V-Aib-EIQL-Nle-HQ-(α-Me-2,6-F-Phe)-Aib-(α-Me-2,6-F-Phe)-(Bip(OMe))-(APPA)

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R : 제조된 단쇄 펩티드 목록

Seq. No.	ID.	단쇄 펩티드 서열
810		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-AR-(Bip(OMe))-(APPA)
811		(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-AR-(Bip(OMe))-(APPA)
812		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-A-Cit-(Bip(OMe))-(APPA)
813		(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-A-Cit-(Bip(OMe))-(APPA)
814		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-A-Aib-(Bip(OMe))-(APPA)
815		(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-A-Aib-(Bip(OMe))-(APPA)
816		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-A-(α -Me-2,6-F-Phe)-(Bip(OMe))-(APPA)
817		(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-A-(α -Me-2,6-F-Phe)-(Bip(OMe))-(APPA)
818		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-R-(Bip(OMe))-(APPA)
819		(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-R-(Bip(OMe))-(APPA)
820		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-Cit-(Bip(OMe))-(APPA)
821		(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-Cit-(Bip(OMe))-(APPA)
822		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-Aib-(Bip(OMe))-(APPA)
823		(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-Aib-(Bip(OMe))-(APPA)
824		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-(α -Me-2,6-F-Phe)-(Bip(OMe))-(APPA)
825		(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-(α -Me-2,6-F-Phe)-(Bip(OMe))-(APPA)
826		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-AR-(Bip(OMe))-(APPA)
827		(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-AR-(Bip(OMe))-(APPA)
828		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-A-Cit-(Bip(OMe))-(APPA)
829		(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-A-Cit-(Bip(OMe))-(APPA)
830		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-A-Aib-(Bip(OMe))-(APPA)
831		(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-A-Aib-(Bip(OMe))-(APPA)
832		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-A-(α -Me-2,6-F-Phe)-(Bip(OMe))-(APPA)
833		(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-A-(α -Me-2,6-F-Phe)-(Bip(OMe))-(APPA)
834		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-Aib-R-(Bip(OMe))-(APPA)
835		(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-Aib-R-(Bip(OMe))-(APPA)
836		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-Aib-Cit-(Bip(OMe))-(APPA)
837		(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-Aib-Cit-(Bip(OMe))-(APPA)
838		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-Aib-Aib-(Bip(OMe))-(APPA)
839		(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-Aib-Aib-(Bip(OMe))-(APPA)
840		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-Aib-(α -Me-2,6-F-Phe)-(Bip(OMe))-(APPA)
841		(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Orn-Aib-(α -Me-2,6-F-Phe)-(Bip(OMe))-(APPA)
842		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Cit-AR-(Bip(OMe))-(APPA)
843		(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Cit-AR-(Bip(OMe))-(APPA)
844		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Cit-A-Cit-(Bip(OMe))-(APPA)
845		(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Cit-A-Cit-(Bip(OMe))-(APPA)
846		Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Cit-A-Aib-(Bip(OMe))-(APPA)
847		(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Cit-A-Aib-(Bip(OMe))-(APPA)

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848	Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Cit-A-(α -Me-2,6-F-Phe)-(Bip(OMe))-(APPA)
849	(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Cit-A-(α -Me-2,6-F-Phe)-(Bip(OMe))-(APPA)
850	Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Cit-Aib-R-(Bip(OMe))-(APPA)
851	(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Cit-Aib-R-(Bip(OMe))-(APPA)
852	Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Cit-Aib-Cit-(Bip(OMe))-(APPA)
853	(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Cit-Aib-Cit-(Bip(OMe))-(APPA)
854	Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Cit-Aib-Aib-(Bip(OMe))-(APPA)
855	(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Cit-Aib-Aib-(Bip(OMe))-(APPA)
856	Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Cit-Aib-(α -Me-2,6-F-Phe)-(Bip(OMe))-(APPA)
857	(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Cit-Aib-(α -Me-2,6-F-Phe)-(Bip(OMe))-(APPA)
858	Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(HoCit)-AR-(Bip(OMe))-(APPA)
859	(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(HoCit)-AR-(Bip(OMe))-(APPA)
860	Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(HoCit)-A-Cit-(Bip(OMe))-(APPA)
861	(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(HoCit)-A-Cit-(Bip(OMe))-(APPA)
862	Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(HoCit)-A-Aib-(Bip(OMe))-(APPA)
863	(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(HoCit)-A-Aib-(Bip(OMe))-(APPA)
864	Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(HoCit)-A-(α -Me-2,6-F-Phe)-(Bip(OMe))-(APPA)
865	(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(HoCit)-A-(α -Me-2,6-F-Phe)-(Bip(OMe))-(APPA)
866	Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(HoCit)-Aib-R-(Bip(OMe))-(APPA)
867	(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(HoCit)-Aib-R-(Bip(OMe))-(APPA)
868	Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(HoCit)-Aib-Cit-(Bip(OMe))-(APPA)
869	(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(HoCit)-Aib-Cit-(Bip(OMe))-(APPA)
870	Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(HoCit)-Aib-Aib-(Bip(OMe))-(APPA)
871	(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(HoCit)-Aib-Aib-(Bip(OMe))-(APPA)
872	Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(HoCit)-Aib-(α -Me-2,6-F-Phe)-(Bip(OMe))-(APPA)
873	(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(HoCit)-Aib-(α -Me-2,6-F-Phe)-(Bip(OMe))-(APPA)
874	Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-AR-(Bip(OMe))-(APPA)
875	(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-AR-(Bip(OMe))-(APPA)
876	Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-A-Cit-(Bip(OMe))-(APPA)
877	(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-A-Cit-(Bip(OMe))-(APPA)
878	Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-A-Aib-(Bip(OMe))-(APPA)
879	(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-A-Aib-(Bip(OMe))-(APPA)
880	Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-A-(α -Me-2,6-F-Phe)-(Bip(OMe))-(APPA)

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881	(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-A-(α -Me-2,6-F-Phe)-(Bip(OMe))-(APPA)
882	Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-Aib-R-(Bip(OMe))-(APPA)
883	(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-Aib-R-(Bip(OMe))-(APPA)
884	Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-Aib-Cit-(Bip(OMe))-(APPA)
885	(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-Aib-Cit-(Bip(OMe))-(APPA)
886	Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-Aib-Aib-(Bip(OMe))-(APPA)
887	(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-Aib-Aib-(Bip(OMe))-(APPA)
888	Aib-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-Aib-(α -Me-2,6-F-Phe)-(Bip(OMe))-(APPA)
889	(AC ₅ C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-(α -Me-2,6-F-Phe)-Aib-(α -Me-2,6-F-Phe)-(Bip(OMe))-(APPA)

[0195]

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S : 제조된 단쇄 펩티드 목록

Seq. No.	ID.	단쇄 펩티드 서열
890		Aib-V-Aib-EIQLMHQ-Har-AK-(α Me-Bip(OMe))-(APPA)
891		Aib-V-Aib-EIQL-Nle-HQ-Har-AK-(α Me-Bip(OMe))-(APPA)
892		V-Aib-V-Aib-EIQLMHQ-Har-AK-(Bip(OMe))-(α Me-APPA)
893		V-Aib-V-Aib-EIQL-Nle-HQ-Har-AK-(Bip(OMe))-(α Me-APPA)
894		(α Me-V)-(AC ₅ C)-V-Aib-EIQLMHQ-Har-AK-(Bip(OMe))-(α Me-APPA)
895		(α Me-V)-(AC ₅ C)-V-Aib-EIQL-Nle-HQ-Har-AK-(Bip(OMe))-(α Me-APPA)
896		(NMe-V)-(AC ₅ C)-V-Aib-EIQLMHQ-Har-AK-(Bip(OMe))-(α Me-APPA)
897		(NMe-V)-(AC ₅ C)-V-Aib-EIQL-Nle-HQ-Har-AK-(Bip(OMe))-(α Me-APPA)
898		Aib-V-Aib-EIQLMHQ-Har-A-Har-(α Me-Bip(OMe))-(APPA)
899		Aib-V-Aib-EIQL-Nle-HQ-Har-A-Har-(α Me-Bip(OMe))-(APPA)
900		Aib-V-Aib-EIQLMHQ-Har-A-Har-(Bip(OMe))-(α Me-APPA)
901		Aib-V-Aib-EIQL-Nle-HQ-Har-A-Har-(Bip(OMe))-(α Me-APPA)
902		V-Aib-V-Aib-EIQLMHQ-Har-A-Har-(α Me-Bip(OMe))-(APPA)
903		V-Aib-V-Aib-EIQL-Nle-HQ-Har-A-Har-(α Me-Bip(OMe))-(APPA)
904		V-Aib-V-Aib-EIQLMHQ-Har-A-Har-(Bip(OMe))-(α Me-APPA)
905		V-Aib-V-Aib-EIQL-Nle-HQ-Har-A-Har-(Bip(OMe))-(α Me-APPA)
906		(α Me-V)-(AC ₅ C)-V-Aib-EIQLMHQ-Har-A-Har-(Bip(OMe))-(α Me-APPA)
907		(α Me-V)-(AC ₅ C)-V-Aib-EIQL-Nle-HQ-Har-A-Har-(Bip(OMe))-(α Me-APPA)
908		(NMe-V)-(AC ₅ C)-V-Aib-EIQLMHQ-Har-A-Har-(Bip(OMe))-(α Me-APPA)
909		(NMe-V)-(AC ₅ C)-V-Aib-EIQL-Nle-HQ-Har-A-Har-(Bip(OMe))-(α Me-APPA)
910		Aib-V-Aib-EIQL-(α Me-M)-HQ-Har-A-Har-(α Me-Bip(OMe))-(APPA)
911		Aib-V-Aib-EIQL-(α Me-Nle)-HQ-Har-A-Har-(α Me-Bip(OMe))-(APPA)
912		Aib-V-Aib-EIQL-(α Me-M)-HQ-Har-A-Har-(Bip(OMe))-(α Me-APPA)
913		Aib-V-Aib-EIQL-(α Me-Nle)-HQ-Har-A-Har-(Bip(OMe))-(α Me-APPA)
914		V-Aib-V-Aib-EIQL-(α Me-M)-HQ-Har-A-Har-(α Me-Bip(OMe))-(APPA)
915		V-Aib-V-Aib-EIQL-(α Me-Nle)-HQ-Har-A-Har-(α Me-Bip(OMe))-(APPA)
916		V-(AC ₅ C)-V-Aib-EIQL-(α Me-M)-HQ-Har-A-Har-(α Me-Bip(OMe))-(APPA)
917		V-(AC ₅ C)-V-Aib-EIQL-(α Me-Nle)-HQ-Har-A-Har-(α Me-Bip(OMe))-(APPA)
918		V-(AC ₅ C)-V-Aib-EIQL-(α Me-M)-HQ-Har-A-Har-(α Me-Bip(OMe))-(APPA)
919		V-(AC ₅ C)-V-Aib-EIQL-(α Me-Nle)-HQ-Har-A-Har-(α Me-Bip(OMe))-(APPA)
920		V-Aib-V-Aib-EIQL-(α Me-M)-HQ-Har-A-Har-(Bip(OMe))-(α Me-APPA)
921		V-Aib-V-Aib-EIQL-(α Me-Nle)-HQ-Har-A-Har-(Bip(OMe))-(α Me-APPA)
922		V-(AC ₅ C)-V-Aib-EIQL-(α Me-M)-HQ-Har-A-Har-(Bip(OMe))-(α Me-APPA)
923		V-(AC ₅ C)-V-Aib-EIQL-(α Me-Nle)-HQ-Har-A-Har-(Bip(OMe))-(α Me-APPA)
924		V-(AC ₅ C)-V-Aib-EIQL-(α Me-M)-HQ-Har-A-Har-(Bip(OMe))-(α Me-APPA)
925		V-(AC ₅ C)-V-Aib-EIQL-(α Me-Nle)-HQ-Har-A-Har-(Bip(OMe))-(α Me-APPA)
926		(α Me-V)-(AC ₅ C)-V-Aib-EIQL-(α Me-M)-HQ-Har-A-Har-(Bip(OMe))-(α Me-APPA)
927		(α Me-V)-(AC ₅ C)-V-Aib-EIQL-(α Me-Nle)-HQ-Har-A-Har-(Bip(OMe))-(α Me-APPA)
928		(NMe-V)-(AC ₅ C)-V-Aib-EIQL-(α Me-M)-HQ-Har-A-Har-(Bip(OMe))-(α Me-APPA)
929		(NMe-V)-(AC ₅ C)-V-Aib-EIQL-(α Me-Nle)-HQ-Har-A-Har-(Bip(OMe))-(α Me-APPA)
930		Aib-V-Aib-EIQL-(α Me-M)-HQ-Har-A-Har-(α Me-2FPhe)-(APPA)
931		Aib-V-Aib-EIQL-(α Me-Nle)-HQ-Har-A-Har-(α Me-2FPhe)-(APPA)
932		V-Aib-V-Aib-EIQL-(α Me-M)-HQ-Har-A-Har-(α Me-2FPhe)-(α Me-APPA)
933		V-Aib-V-Aib-EIQL-(α Me-Nle)-HQ-Har-A-Har-(α Me-2FPhe)-(α Me-APPA)
934		V-(AC ₅ C)-V-Aib-EIQL-(α Me-M)-HQ-Har-A-Har-(α Me-2FPhe)-(α Me-APPA)
935		V-(AC ₅ C)-V-Aib-EIQL-(α Me-Nle)-HQ-Har-A-Har-(α Me-2FPhe)-(α Me-APPA)
936		V-(AC ₅ C)-V-Aib-EIQL-(α Me-M)-HQ-Har-A-Har-(α Me-2FPhe)-(α Me-APPA)

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937	V-(AC ₅ C)-V-Aib-EIQL-(α Me-N1e)-HQ-Har-A-Har-(α Me-2FPhe)-(α Me-APPA)
938	(α Me-V)-(AC ₅ C)-V-Aib-EIQL-(α Me-M)-HQ-Har-A-Har-(α Me-2FPhe)-(α Me-APPA)
939	(α Me-V)-(AC ₅ C)-V-Aib-EIQL-(α Me-N1e)-HQ-Har-A-Har-(α Me-2FPhe)-(α Me-APPA)
940	(NMe-V)-(AC ₅ C)-V-Aib-EIQL-(α Me-M)-HQ-Har-A-Har-(α Me-2FPhe)-(α Me-APPA)
941	(NMe-V)-(AC ₅ C)-V-Aib-EIQL-(α Me-N1e)-HQ-Har-A-Har-(α Me-2FPhe)-(α Me-APPA)
942	Aib-V-Aib-EIQL-(α Me-M)-HQ-Har-A-Har-(α Me-Trp)-(APPA)
943	Aib-V-Aib-EIQL-(α Me-N1e)-HQ-Har-A-Har-(α Me-Trp)-(APPA)
944	(AC ₃ C)-V-Aib-EIQL-(α Me-M)-HQ-Har-A-Har-(α Me-Trp)-(APPA)
945	(AC ₃ C)-V-Aib-EIQL-(α Me-N1e)-HQ-Har-A-Har-(α Me-Trp)-(APPA)
946	(AC ₅ C)-V-Aib-EIQL-(α Me-M)-HQ-Har-A-Har-(α Me-Trp)-(APPA)
947	(AC ₅ C)-V-Aib-EIQL-(α Me-N1e)-HQ-Har-A-Har-(α Me-Trp)-(APPA)
948	Aib-V-Aib-EIQL-(α Me-M)-HQ-Har-A-Har-(α Me-Trp)-(α Me-APPA)
949	Aib-V-Aib-EIQL-(α Me-N1e)-HQ-Har-A-Har-(α Me-Trp)-(α Me-APPA)
950	V-(AC ₃ C)-V-Aib-EIQL-(α Me-M)-HQ-Har-A-Har-(α Me-Trp)-(α Me-APPA)
951	V-(AC ₃ C)-V-Aib-EIQL-(α Me-N1e)-HQ-Har-A-Har-(α Me-Trp)-(α Me-APPA)
952	V-(AC ₅ C)-V-Aib-EIQL-(α Me-M)-HQ-Har-A-Har-(α Me-Trp)-(α Me-APPA)
953	V-(AC ₅ C)-V-Aib-EIQL-(α Me-N1e)-HQ-Har-A-Har-(α Me-Trp)-(α Me-APPA)
954	(α Me-V)-(AC ₅ C)-V-Aib-EIQL-(α Me-M)-HQ-Har-A-Har-(α Me-Trp)-(α Me-APPA)
955	(α Me-V)-(AC ₅ C)-V-Aib-EIQL-(α Me-N1e)-HQ-Har-A-Har-(α Me-Trp)-(α Me-APPA)

[0198]

[0199]

신규한 단쇄 펩티드의 생체 외 및 생체 내에서의 연구 :

[0200]

상기한 바와 같이 제조한 단쇄 펩티드를 다음과 같이 실험 하였다 ;

[0201]

a) 생체 외에서 랫 PTH-1 R 작용물질 활성도(UMR-106 세포에서의 사이클릭 AMP 측정) ;

[0202]

b) 인체 혈장, 인공 위액(simulated gastric fluid), 장액(intestinal fluid) 및 간 마이크로솜에서의 펩티드 안정성(탈체 : ex-vivo) ; 및

[0203]

c) OVX 랫 모델에서 생체 내에서 실험한 항-골다공증 활성도.

[0204]

a) 생체 외에서 랫 PTH-1 R 작용물질 활성도(UMR-106 세포에서의 사이클릭 AMP 측정) :

[0205]

PTHR 은 GPCR 이고 PTHR 작용물질은 이에 결합하고 신호전달을 통해서 아데닐산 시클라아제(adenylate cyclase)를 활성화시키고 세포 내에서 cAMP 의 농도를 증가시킨다. 신규한 화합물의 효능적 활성을 모니터링하기 위해서, 랫 PTHR, 특히 PTH-1R 이 내부에 발현된 UMR-106 랫의 골육종 세포(Source ATCC)를 다양한 농도의 실험 화합물로 처리하였고, 방출된 cAMP 의 양을 측정하였다.

[0206]

UMR-106 세포를 10 % 소태아 혈청(FBS) 및 1X 펜스트렙(Penstrep)을 함유하는 DMEM 영양 배지(nutrition media)(Sigma)에 배양시켰다. 배양시킨 세포를 96-웰 조직 배양 플레이트에 10 % FBS 로 보충한 DMEM 배지에 웰 당 5×10^4 밀도의 세포로 도말하고 유효성 검증(efficacy assays)하기 전에 2 일 동안 성장시켰다. 검증하는 날에, 성장 배지를 석션(suction)으로 조심스럽게 제거하고 세포를 200 μ l 의 PBS 로 한번 세척하고, 90 μ l 반응 배지[플레인 DMEM 배지, 저농도의 글루코스, 0.1 % BSA(Sigma) 및 1 mM 3-이소부틸-1-메틸크산틴(Sigma)]에서 30 분 동안 37 °C 에서 배양하고 난 다음에 90 μ l 의 반응 배지에서 10 μ l 의 실험 화합물(농도 1, 10 및 100 nM)로 처리하고 30 분 동안 실온에서 배양하였다. 배지를 흡입시키고, 60 μ l 의 세포용출 완충용액(lysis buffer), 효소 공여체(ED) 기질 시약(enzyme donor substrate reagent)(40 μ l) 및 cAMP-항체 시약을 첨가하고 플레이트를 1 시간 동안 실온에서 배양시켰다. 게다가, 효소 수용체(EA) 시약(enzyme acceptor reagent)을 첨가하고 2 시간 동안 실온에서 배양한 후에 Top Count L-Max 발광 측정 장치(Luminometer)(각 웰 마다 20초씩 판독)로 루미네센스(luminescence)를 판독하였다. cAMP 표준 곡선으로부터 방출된 cAMP 의 양을 측정하였다. 데이터는 대조군[매질(vehicle) : 물]의 백분율로 계산하고 평균 $\pm$ SD 로 표현하였다. 생체 외에서 PTH-1 수용체 효

능적 활성을 갖는 대표적인 펩티드를 표 3 에 열거하였다. 선별된 실험 화합물의 EC₅₀ 를 측정하기 위해서 비-선형 회귀 곡선 피트(curve fit)[시그모이달 도스(Sigmoidal dose)]로 데이터를 분석하였다(Carter P. H., 등의., PNAS, 2007, 104(16), 6846-6851; Merritt B. S., J. Cellular Physiology, 2005, 152(3), 520-528; Reid I. R., Am. J. Physiol. Endocrinol. Metab., 253, 1987, E45-E50).

[표 3]

생체 외에서 선별된 실험 화합물의 PTH-1 R 효능적 활성, 대조군에 대한 방출된 cAMP 의 양			
화합물	1 nM	10 nM	100 nM
PTH (1-34)	41±0.12	97±0.10	100±0.06
Seq. ID. 9	16±0.022	41±0.16	52±0.21
Seq. ID. 15	28±0.1	78±0.02	99±0.02
Seq. ID. 20	79±0.02	111±0.03	121±0.07
Seq. ID. 23	12±0.03	41±0.10	69±0.07
Seq. ID. 30	19±0.12	51±0.06	80±0.05
Seq. ID. 41	26±0.01	79±0.02	97±0.01
Seq. ID. 49	16±0.1	56±0.2	73±0.05
Seq. ID. 59	19±0.01	66±0.01	84±0.2
Seq. ID. 65	34±0.01	82±0.16	104±0.12
Seq. ID. 78	23±0.03	73±0.01	93±0.3
Seq. ID. 91	42±0.1	101±0.2	110±0.03
Seq. ID. 110	12±0.04	39±0.06	72±0.02
Seq. ID. 132	29±0.05	82±0.07	101±0.01
Seq. ID. 156	31±0.2	89±0.03	106±0.04
Seq. ID. 174	31±0.02	72±0.09	100±0.11
Seq. ID. 198	32±0.02	71±0.16	99±0.21
Seq. ID. 212	34±0.09	88±0.07	116±0.04
Seq. ID. 238	38±0.13	91±0.12	120±0.11
Seq. ID. 256	28±0.11	71±0.11	87±0.15
Seq. ID. 271	46±0.1	108±0.01	116±0.11
Seq. ID. 292	39±0.11	104±0.09	120±0.06
Seq. ID. 311	26±0.08	68±0.06	86±0.01
Seq. ID. 325	38±0.9	98±0.03	116±0.01
Seq. ID. 330	18±0.12	51±0.15	72±0.18
Seq. ID. 346	21±0.02	51±0.12	69±0.17
Seq. ID. 351	38±0.15	79±0.01	119±0.06
Seq. ID. 372	32±0.02	71±0.16	99±0.21
Seq. ID. 397	38±0.11	102±0.09	117±0.06
Seq. ID. 418	29±0.11	52±0.07	69±0.01
Seq. ID. 429	39±0.11	101±0.12	120±0.10
Seq. ID. 444	26±0.022	67±0.46	81±0.41
Seq. ID. 461	56±0.09	101±0.07	126±0.04
Seq. ID. 470	36±0.09	88±0.07	116±0.04
Seq. ID. 479	48±0.11	99±0.10	112±0.13
Seq. ID. 486	34±0.01	82±0.16	104±0.12
Seq. ID. 501	28±0.11	71±0.11	87±0.15
Seq. ID. 514	19±0.12	64±0.04	80±0.01
Seq. ID. 521	21±0.02	51±0.12	69±0.17
Seq. ID. 540	16±0.02	57±0.43	75±0.21
Seq. ID. 553	38±0.9	98±0.03	116±0.01
Seq. ID. 598	38±0.15	79±0.01	119±0.06
Seq. ID. 609	39±0.11	101±0.12	120±0.10
Seq. ID. 637	36±0.12	98±0.06	110±0.01
Seq. ID. 647	56±0.09	101±0.07	126±0.04
Seq. ID. 678	48±0.11	102±0.10	112±0.13
Seq. ID. 694	19±0.12	64±0.04	80±0.01
Seq. ID. 712	15±0.01	54±0.4	69±0.03
Seq. ID. 733	36±0.12	98±0.06	110±0.01
Seq. ID. 751	34±0.09	88±0.07	116±0.04
Seq. ID. 781	16±0.02	57±0.43	75±0.21

Seq. ID. 799	38±0.03	99±0.1	106±0.03
Seq. ID. 813	82±0.05	109±0.1	110±0.7
Seq. ID. 820	14±0.3	48±0.03	66±0.05
Seq. ID. 841	32±0.11	74±0.14	100±0.01
Seq. ID. 860	22±0.12	50±0.15	70±0.18
Seq. ID. 872	19±0.11	42±0.09	59±0.06
Seq. ID. 886	31±0.020	72±0.17	100±0.11
Seq. ID. 899	38±0.13	91±0.14	120±0.11
Seq. ID. 905	39±0.11	104±0.09	120±0.06
Seq. ID. 917	46±0.02	98±0.01	116±0.11
Seq. ID. 925	16±0.022	41±0.16	52±0.21
Seq. ID. 917	26±0.08	68±0.06	86±0.01
Seq. ID. 926	18±0.12	51±0.15	72±0.18
Seq. ID. 935	38±0.11	102±0.09	117±0.06
Seq. ID. 942	29±0.11	52±0.07	69±0.01
Seq. ID. 950	26±0.022	67±0.46	81±0.41
Seq. ID. 954	36±0.09	88±0.07	116±0.04

[0209]

b) 인체 혈장, 인공 위액, 장액 및 간 마이크로솜에서의 펩티드 안정성(탈체)

[0211]

0, 2, 4, 6, 12 및 24 시간 동안(37 °C ; 50 mM 트리에탄올아민-HCL 완충용액 ; pH 7.8) 인체 혈청(7.5 μ l) 또는 인공 위액(pH 1.5 : 조성 HCL, NaCl 및 펩신) 또는 인공 장액(pH 7.5) 또는 인체 간 마이크로솜에 상이한 단쇄 펩티드(최종 농도 2 μ M)를 배양하였다. 24 시간 동안 관찰하여 시간-의존성 분해(time-dependent degradation)가 가능하도록 하여 1 시간 내에 대략 PTH(1-34)의 50 % 분해를 제공하는 인체 혈장/인공 위액/인공 장액/인체 간 마이크로솜의 농도를 예비 실험에서 선별하였다. TFA/H₂O (15 mL, 10% (v/v))를 첨가하여 반응을 종료하였다. 그리고 난 다음 반응 산물을 Vydac C₁₈ 분석컬럼(4.6 x 250-mm)에 적용시키고 난 다음 대부분의 분해 단편을 온전한(intact) 단쇄 펩티드로부터 분리시켰다. 컬럼을 1 mL/분의 유량으로 TFA/H₂O 로 평형을 유지시켰다. 70 % 아세트오니트릴/H₂O 에 용해시킨 0.1% (v/v) TFA를 사용하여, 용출시킨 용매의 아세트오니트릴 농도를 10 분 동안 0% 내지 28% 로 증가시키고 30 분 동안 28% 내지 42% 로 증가시켰다. ESI-MS 분석 전에 UV 검출기를 사용하여 206 nm 에서 흡광도를 모니터하였고, 정점(peak)을 수집하였다. 실험 펩티드에 대한 곡선 아래의 영역을 측정하였고, 이들의 대사산물 및 분해 퍼센트를 24 시간 이상 각각의 시점에서 측정하였다. (생체 외) 인체 혈장, 인공 위액, 인공 장액 및 간 마이크로솜에서 선별된 펩티드의 안정성 연구 결과를 표 4 에 나타내었다.

[0212]

[표 4]

(생체 외에서) 인체 혈장, 인공 위액, 장액 및 간 마이크로솜에서 선별된 단백질의 안정성 연구 결과				
Seq. ID. No.	인체 혈장 ^a	인공 위액 ^b	인공 장액 ^c	간 마이크로솜 ^d
PTH(1-34)	97 (0.5)	100 (0.1)	100 (0.2)	100 (0.1)
Seq. ID. 10	70(9)	100 (0.5)	100 (0.5)	100 (0.5)
Seq. ID. 14	69(8)	11 (7)	43 (6)	77 (2)
Seq. ID. 25	75(8)	12 (8)	46 (6)	83 (1)
Seq. ID. 34	70(8)	15 (8)	41 (6)	77 (1)
Seq. ID. 46	00 (>24)	00 (>24)	00 (>24)	31 (5)
Seq. ID. 56	00 (>24)	00 (>24)	00 (>24)	32 (5)
Seq. ID. 62	00 (>24)	00 (>24)	00 (>24)	33 (5)
Seq. ID. 75	78(9)	100 (0.5)	100 (0.5)	100 (0.5)
Seq. ID. 85	77(9)	100 (0.5)	100 (0.5)	100 (0.5)
Seq. ID. 95	80(9)	100 (0.5)	100 (0.5)	100 (0.5)
Seq. ID. 100	00 (>24)	49 (4)	00 (>24)	82 (2)
Seq. ID. 115	78(8)	12 (8)	55 (6)	79 (1)
Seq. ID. 142	80(8)	13 (8)	50 (6)	82 (1)
Seq. ID. 161	78(8)	14 (8)	43 (6)	80 (1)
Seq. ID. 182	00 (>24)	00 (>24)	00 (>24)	26 (5)
Seq. ID. 220	75(8)	12 (8)	46 (6)	83 (1)
Seq. ID. 240	71(8)	14 (8)	40 (6)	78 (1)
Seq. ID. 250	78(8)	14 (8)	43 (6)	80 (1)
Seq. ID. 260	70(8)	15 (8)	41 (6)	77 (1)
Seq. ID. 270	78(9)	100 (0.5)	100 (0.5)	100 (0.5)
Seq. ID. 290	75(9)	100 (0.5)	100 (0.5)	100 (0.5)
Seq. ID. 315	71(9)	100 (0.5)	100 (0.5)	100 (0.5)
Seq. ID. 329	70(9)	100 (0.5)	100 (0.5)	100 (0.5)
Seq. ID. 345	70(9)	100 (0.5)	100 (0.5)	100 (0.5)
Seq. ID. 380	00 (>24)	50 (4)	00 (>24)	86 (2)
Seq. ID. 390	00 (>24)	55 (4)	00 (>24)	84 (2)
Seq. ID. 411	77(8)	14 (8)	45 (6)	81 (1)
Seq. ID. 430	00 (>24)	45 (4)	00 (>24)	85 (2)
Seq. ID. 440	00 (>24)	43 (4)	00 (>24)	84 (2)
Seq. ID. 460	71(8)	14 (8)	40 (6)	78 (1)
Seq. ID. 480	00 (>24)	00 (>24)	00 (>24)	32 (5)
Seq. ID. 490	00 (>24)	43 (4)	00 (>24)	84 (2)
Seq. ID. 510	00 (>24)	41 (4)	00 (>24)	80 (2)
Seq. ID. 525	78(8)	12 (8)	55 (6)	79 (1)
Seq. ID. 550	80(8)	13 (8)	50 (6)	82 (1)
Seq. ID. 560	78(8)	14 (8)	43 (6)	80 (1)
Seq. ID. 570	71(9)	100 (0.5)	100 (0.5)	100 (0.5)
Seq. ID. 580	75(8)	12 (8)	46 (6)	83 (1)
Seq. ID. 590	00 (>24)	00 (>24)	00 (>24)	35 (5)
Seq. ID. 610	71(8)	14 (8)	40 (6)	78 (1)
Seq. ID. 650	70(8)	15 (8)	41 (6)	77 (1)
Seq. ID. 690	70(8)	12 (8)	42 (6)	78 (1)
Seq. ID. 710	00 (>24)	00 (>24)	00 (>24)	35 (5)
Seq. ID. 720	10 (>20)	50 (4)	00 (>24)	86 (2)
Seq. ID. 730	05 (>22)	55 (4)	00 (>24)	84 (2)
Seq. ID. 750	09 (>23)	45 (4)	00 (>24)	85 (2)
Seq. ID. 790	00 (>24)	43 (4)	00 (>24)	84 (2)
Seq. ID. 805	00 (>24)	49 (4)	00 (>24)	82 (2)
Seq. ID. 811	00 (>24)	52 (4)	00 (>24)	81 (2)

[0213]

Seq. ID. 829	01 (>23)	43 (4)	05 (>22)	84 (2)
Seq. ID. 840	00 (>24)	00 (>24)	00 (>24)	33 (5)
Seq. ID. 860	77(8)	14 (8)	45 (6)	81 (1)
Seq. ID. 880	00 (>24)	00 (>24)	00 (>24)	31 (5)
Seq. ID. 890	00 (>24)	00 (>24)	00 (>24)	32 (5)
Seq. ID. 895	00 (>24)	00 (>24)	00 (>24)	33 (5)
Seq. ID. 898	00 (>24)	00 (>24)	00 (>24)	26 (5)
Seq. ID. 906	78(9)	100 (0.5)	100 (0.5)	100 (0.5)
Seq. ID. 910	77(9)	100 (0.5)	100 (0.5)	100 (0.5)
Seq. ID. 915	80(9)	100 (0.5)	100 (0.5)	100 (0.5)
Seq. ID. 920	00 (>24)	00 (>24)	00 (>24)	35 (5)
Seq. ID. 925	78(9)	100 (0.5)	100 (0.5)	100 (0.5)
Seq. ID. 930	00 (>24)	00 (>24)	00 (>24)	32 (5)
Seq. ID. 936	00 (>24)	52 (4)	00 (>24)	81 (2)
Seq. ID. 939	10 (>20)	08 (>22)	09 (>22)	33 (5)
Seq. ID. 940	00 (>24)	00 (>24)	00 (>24)	32 (5)
Seq. ID. 945	75(9)	100 (0.5)	100 (0.5)	100 (0.5)
Seq. ID. 949	70(9)	100 (0.5)	100 (0.5)	100 (0.5)
Seq. ID. 950	00 (>24)	00 (>24)	00 (>24)	35 (5)

a: 인체 혈장에서 배양하였을 때, 24 시간 동안 캡티드 분해 % 및 시간에서의 반감기($t_{1/2}$)를 나타낸 괄호의 값 ;
b: 인공 위액에서 배양하였을 때, 24 시간 동안 캡티드 분해 % 및 시간에서의 반감기($t_{1/2}$)를 나타낸 괄호의 값 ;
c: 인공 장액에서 배양하였을 때, 24 시간 동안 캡티드 분해 % 및 시간에서의 반감기($t_{1/2}$)를 나타낸 괄호의 값 ;
d: 간 마이크로솜에서 배양하였을 때, 24 시간 동안 캡티드 분해 % 및 시간에서의 반감기($t_{1/2}$)를 나타낸 괄호의 값 ;

[0214]

[0215]

c) 생체내 OVX 랫 모델에서 실험한 항-골다공증 활성도 :

[0216]

생체 내에서 실험 화합물(단쇄 펩티드)의 항-골다공증 활성도를 연구하기 위해 난소가 절출된 랫(ovariectomized rat : OVX 랫)을 사용하였다. 난소 호르몬 결핍증 때문에 OVX 랫은 골감소증이 생겼다. 난소를 적출하고 14일이 되면 골감소증이 감지되었고 100일 후에는 증상이 더 증가되었고 그 다음에는 안정화되었다(Wronski T. J. 등의., Calcif. Tissue Int., 43(3), 1988, 179-183).

[0217]

OVX 동물에서 골 표지자(marker) 및 조직형태계측에서 동화치료 효과를 증진시키는 자세한 연구 프로토콜 :

[0218]

10 내지 11 주된 암컷 Wistar 랫(150-200 g)을 이용하였다. 조절된 온도($23^{\circ}\text{C} \pm 3^{\circ}\text{C}$), 조명(12시간 : 12시간의 주-야간 사이클) 및 상대적인 습도($55 \pm 10 \%$)로 공간에서 각기 환기된 케이지(cage)에서 동물을 키웠다. 동물은 랫 먹이 및 물에 자유롭게 접근할 수 있다. 이러한 연구를 실시하기 위한 동물의 사용에 대한 프로토콜은 재검토되었고 동물 실험 윤리 위원회(IAEC)에 의해 인가되었다.

[0219]

연구를 시작하기 전에 식별을 위해서 피크르산으로 동물을 표지하고 2 일 동안 실험적인 실내 조건에 적응시켰다. 골다공증을 유도하기 위해서, 랫을 마취시키고 난소를 양쪽 다 적출하였다. 난소 절제술을 행하기 위해서, 동물의 옆구리 부위에 가까운 등쪽 옆 부위를 절개하였다. 그리고 난 다음에, 혈액 손실을 방지하기 위해서 혈관을 묶고 난소를 절개하였다. 절개 후에 결찰사(ligature)로 봉합하였다.

[0220]

[0221]

양쪽의 난소절제술 후에 동물을 4 주 동안 휴식을 취하게 하였다. 그리고 난 다음에 동물의 몸무게를 기초로 동물을 다른 그룹($n=9$)으로 나누었다. 어떠한 치료도 하지 않는 대조군, 기준으로서의 PTH 및 실험 화합물(단쇄 펩티드)의 하나 또는 두 개의 그룹으로 이루어져 있다. 6주 동안 치료를 받았다. 치료 마지막 날에 소변을 모으기 위해서 단식시키고 실험 동물을 대사 케이지(metabolic cages)에 하룻밤 동안 두었다. 다음날 마지막으로 복용한지 24 시간이 지난 후에 혈액을 모으고 동물을 희생시켰다. 생화학적 파라미터 및 골 전환율(bone turnover) 파라미터에서의 변화(혈청에서 칼슘의 증가 및 인산염 농도, 산성 인산가수분해 효소 및 TRAP의 감소)를 소변과 혈청에서 평가하였다. 희생시킨 후에 온전한 대퇴골 및 경골을 적출하고 부착된 조직, 근육 및 힘줄을 제거하고 무게를 재고 포름 살린(formal saline)(10 % 포름알데히드 용액)에 모았다. 요추골(L5)를 절개

하고 조심스럽게 깨끗하게 하고 포름 살린에 모았다. 대퇴골, 경골 및 요추골-5(L5)을 조직형태학적 평가를 위해 처리하였다(Zhang L., 등의1., Tohoku J Exp Med., 1998, 186(2), 131-41; Tanizawa T., 등의., Toxicol Lett., 1998,102, 399-403). 선별된 캡티드의 혈청에서의 칼슘 증가 및 인산염 농도(% 변화율 대 PTH)의 감소를 표 5에 나타내었다.

[표 5]

OVX 랫의 혈청에서의 칼슘 농도의 증가 및 인산염 농도의 감소 (PTH/대조군과 비교한 변화율 %)			
Seq. ID NO.	투여량	대조군과 비교한 혈청에서의 Ca^{2+} 농도 (mg/dl)의 증가율 %	대조군과 비교한 혈청에서의 PO_4 농도 (mg/dl)의 감소율 %
PTH(1-34)	20 μ g/kg, sc	100	100
Seq. ID. 7	1 mg/kg, po	90	88
Seq. ID. 12	5 mg/kg, po	118	102
Seq. ID. 39	0.03 mg/kg, po	88	66
Seq. ID. 72	0.01 mg/kg, po	49	77
Seq. ID. 99	2 mg/kg, po	99	89
Seq. ID. 117	3 mg/kg, po	110	99
Seq. ID. 158	0.1 mg/kg, po	100	82
Seq. ID. 210	1 mg/kg, po	96	99
Seq. ID. 293	5 mg/kg, po	67	75
Seq. ID. 317	3 mg/kg, po	102	93
Seq. ID. 391	0.1 mg/kg, po	82	59
Seq. ID. 407	0.03 mg/kg, po	77	81
Seq. ID. 469	0.01 mg/kg, po	43	65
Seq. ID. 511	1 mg/kg, po	84	88
Seq. ID. 556	5 mg/kg, po	77	84
Seq. ID. 599	0.03 mg/kg, po	110	90
Seq. ID. 607	0.01 mg/kg, po	78	88
Seq. ID. 649	2 mg/kg, po	86	82
Seq. ID. 686	3 mg/kg, po	84	80
Seq. ID. 742	0.1 mg/kg, po	89	92
Seq. ID. 779	1 mg/kg, po	67	56
Seq. ID. 798	5 mg/kg, po	88	82
Seq. ID. 801	3 mg/kg, po	59	65
Seq. ID. 814	0.02 mg/kg, po	99	95
Seq. ID. 833	0.05 mg/kg, po	86	78
Seq. ID. 847	0.5 mg/kg, po	77	79
Seq. ID. 893	0.3 mg/kg, po	108	89
Seq. ID. 902	0.8 mg/kg, po	110	98
Seq. ID. 911	10 mg/kg, po	121	97
Seq. ID. 929	2 mg/kg, po	121	90
Seq. ID. 941	0.9 mg/kg, po	99	95

PTH(1-34)(도 1A) 및 Seq. ID No. 111(도 1B)의 (랫 PTH-1 R 검정에서의) 생체 외 DRC 연구 데이터(EC_{50})을 대 표적인 도면으로써 도 1에 나타내었다. OVX 암컷 Wister 랫에서 경구 투여로 상이한 복용량(0.1/0.2/0.3/0.5 mg/kg)으로 Seq. ID. No. 111 ((AC₃C)-V-Aib-EIQ-(α -Me-2,6-F-Phe)-Nle-HQ-Har-Aib-K-(α -Me-2,6-F-Phe))로 6 주 치료한 후의 생체 내 DRC 연구 데이터를 대표적인 도면으로 도 3에 나타내었다(도 3A : 혈청에서의 Ca^{2+} 농도의 증가율 % ; 도 3B : 혈청에서의 PO_4 농도의 감소율 %). 도 4는 Seq. ID No. 111 및 PTH(1-34)로 6 주 치료한 후의 OVX 랫에서의 생화학적 파라미터 및 대퇴골 무게의 변화를 도 4에 나타내었다. Seq. ID No. 111로 6 주 치료한 후에 OVX 랫에서 대퇴골, 경골 및 요추의 조직학적 단면도를 도 5, 6 및 7에 나타내었다.

유용성 :

바람직한 실시형태에서, 본 발명은 UMR-106 세포에서 상이한 정도의 친화력(1-1000 nM 농도)을 갖는 PTH-1 수용

체의 작용물질로서 작용하는 단쇄 펩티드를 제조하는 방법을 제공한다. PTH-1 수용체 효능적 활성을 실험 화합물에 의한 방출된 cAMP 의 양으로 평가하여 측정하였다(생체 외에서). OVX 마우스/랫 모델(생체 내)에서, 몇몇의 단쇄 펩티드는 골다공증의 치료 및 예방을 위한 골 성장 파라미터를 개선시켜 이상적인 치료상의 후보물질이 되었다.

[0227] 본 발명의 신규한 단쇄 펩티드는 다양한 단백질 가수 분해 효소에 대비하여 증가된 안정성을 나타내었고, 이러한 증가된 안정성 및 단쇄 길이로 인하여 그 밖의 침습(invasive) 및 비-침습 경로의 투여와 함께 경구로 전달될 수 있다.

[0228] 본 발명은 신규한 단쇄 펩티드를 공지된 적절한 부형제와 함께 적절한 약제학적으로 허용되는 조성물로 제형화시킬 수 있다.

[0229] 일반적으로 이용되는 방법을 사용하여 약제학적 조성물을 제공한다. 바람직하게 조성물은 본 발명에 따른 유효량의 유효성분, 즉 화학식 1 의 단쇄 펩티드 단독 또는 조합물을 함유하는 단위 투여 형태(unit dosage form)이다. 본 분야에서 공지된 적절한 희석제, 안정제, 완충용액 등 중에서 선택한 적절한 부형제를 포함하는 적절한 부형제와 함께 화학식 1 의 화합물과 조합하여 공지된 제조방법으로 약제학적 조성물을 제조할 수 있다.

[0230] 약제학적 조성물 및 이의 단위 투여 형태에서 유효성분, 즉 본 발명에 따른 화학식 1 의 단쇄 펩티드의 양은 특정한 응용 방법, 특정한 단쇄 펩티드의 효능 및 바람직한 농도에 따라 폭넓게 다양화 될 수 있거나 조절될 수 있다. 일반적으로 유효 성분의 양은 조성물의 무게에 따라 0.5 % 내지 90 % 범위이다.

[0231] 이에 맞추어, 본 발명의 단쇄 펩티드를 다음을 포함하지만 이로 인하여 한정되지 않는 골다공증의 다양한 증상 및 장애를 치료하거나 예방하기 위해 동물, 바람직하게 인체에 투여할 수 있다 ;

[0232] 초기 골다공증, 내분비성 골다공증(endocrine osteoporosis)(갑상선 기능 항진증, 부갑상선 기능 항진증, 쿠싱 증후군, 말단 비대증, 제1형 당뇨병, 부신피질 기능저하증), 유전적이고 선천적인 형태의 골다공증[(골형성 부전증, 호모시스틴뇨증, 멘케스 증후군, 릴리-데이 증후군(Riley-Day syndrome)], 영양 장애 및 위장 장애, 혈액 장애(haematological disorder)/악성 종양(다발성 골수종, 림프종, 백혈병, 혈우병, 탈라세미아), 부동화(immobilization), 만성 폐쇄성 폐질환 또는 류마티스성 질환(rheumatologic disorder)(류마티스 관절염, 척추염) 때문에 발생하는 골다공증, 골 손실을 유발하는 골수염, 뼈에서의 전염성 병변(infectious lesion).

[0233] 고형 종양 및 혈액학적 악성 종양에 의한 고칼슘혈증, 특발성 고칼슘혈증(idiopathic hypercalcemia) 및 고칼슘혈증은 갑상선 기능 항진증 및 신장 기능 장애와 연관되어 있다. 수술 후의 골 감소증은 스테로이드 투여에 의해서 유도되고, 소장 및 대장의 장애 및 만성 간질환 및 신장 질환과 연관되어 있다. 외상성 손상(traumatic injury) 또는 비외상성 괴사(nontraumatic necrosis)와 연관된 골괴사증 또는 골 세포 사멸은 고셔병(Gaucher's disease), 겸상 적혈구 빈혈, 전신성 홍반성 루푸스 및 그밖의 증상과 연관되어 있다. 치주 골 손실(Periodontal bone loss), 골용해 전이(Osteolytic metastasis), 골절 치료 및 건선과 같은 과잉증식성 피부질환(hyperproliferative skin disorders).

부호의 설명

[0234] 사용된 약자

다음에 기재한 약자를 실시예 및 본원에 인용된 그 외에서 사용하였다 ;

Abu(CN) = 2-아미노-4-시아노부탄산,

Aib = α -아미노-이소부티르산,
 Ala= 알라닌,
 α -Me-APPA= 2-아미노-2-메틸-5-페닐발레르산,
 α -Me-Bip(OMe)= α -메틸화 Bip(OMe),
 α Me-Har = 알파-메틸-Har,
 α Me-K = 알파-메틸-Lys,
 α Me-M = 알파-메틸-Met,
 α Me-Nle = 알파-메틸-노르류신,
 α Me-Pro= 알파-메틸-프롤린,
 α -Me-Phe = 알파-메틸-페닐알라닌,
 α -Me-2F-Phe = 알파-메틸-2-플루오로페닐알라닌,
 α -Me-2,6-F-Phe = 알파-메틸-2,6-디플루오로페닐알라닌,
 α Me-R = 알파-메틸-Arg,
 α Me-Trp= 알파-메틸-트립토판,
 α Me-Val= 알파-메틸-발린,
 AC₃C= 1-아미노 시클로프로판 카르복실산,
 AC₅C= 1-아미노-시클로펜탄카르복실산,
 AC₆C= 1-아미노-시클로헥산카르복실산,
 ACN = 아세토니트릴,
 APPA = 2-아미노-5-페닐발레르산,
 Arg= 아르기닌,
 Arg(NO₂) = 아르기닌(니트로),
 Asp= 아스파르테이트(Aspartate),
 Asn= 아스파르긴,
 Bn = 벤질,
 Boc = tert-부톡시카르보닐,
 Bip(OMe)= 2'-에틸-4'-메톡시-비페닐알라닌,
 Bu^t = O-tert-부틸기,
 cAMP= 아데노신 3',5'-사이클릭 모노포스페이트,
 Cit = 시트룰린,
 DCM = 디클로로메탄,
 DMF = N,N-디메틸포름아미드,
 DIPCDI= Di-이소프로필카르보디이미드,
 DIPEA= 디이소프로필에틸아민,
 Et = 에틸,

Et₂O = 디에틸 에테르,

EtMet = 에티오닌,

Fmoc = 플루오레닐메톡시카르보닐,

2F-Phe = 2-플루오로페닐알라닌,

g = 그램(s),

Gly= 글리신,

Glu= 글루타메이트,

Gln= 글루타민,

Ile= 이소류신,

h = 시간(시),

His= 히스티딘,

Har = 호모아르기닌(Homoarginine),

HoCit = 호모시트룰린(Homocitrulline),

HoGlu = 호모글루탐산(Homoglutamic acid),

HoLeu = 호모류신(Homoleucine),

HOBt = 1-히드록시벤조트리아졸,

HOAt= 7-아자-히드록시벤조트리아졸(7-Aza-hydroxybenzotriazole),

HBTU = 2-(1H-벤조트리아졸-1-일)-1,1,3,3-테트라메틸 아미늄 헥사플루오로포스페이트,

HPLC = 고성능 액체 크로마토그래피,

K(Biotin) = 리신(비오틴),

K(NO₂)= 리신(니트로),

L = 리터,

LC /MS = 액체 크로마토그래피 / 질량분석법,

Lys= 리신,

Me = 메틸,

Met= 메티오닌,

Min = 분(s),

mL = 밀리리터,

ml = 마이크로리터,

mg = 밀리그램(s),

mmol = 밀리몰(millimole)(s),

MS= 질량분석법,

Nva = 노르발린,

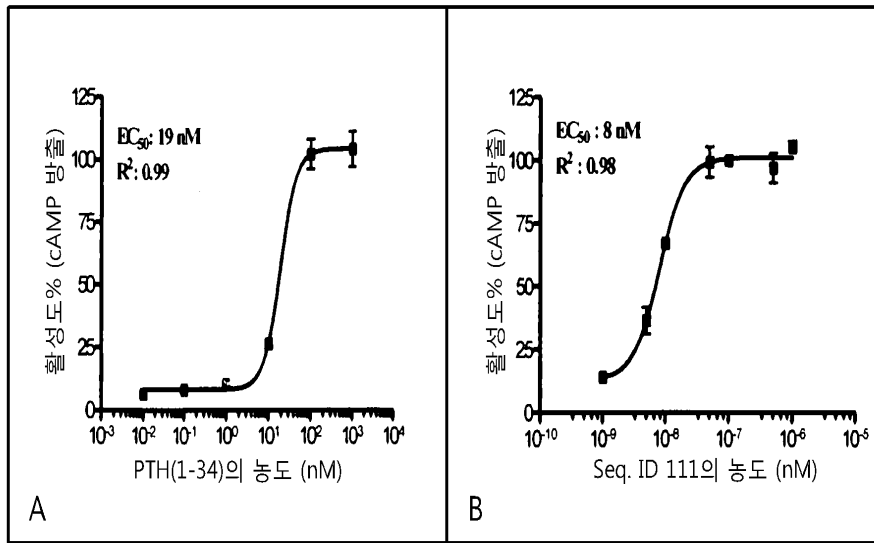
Nle = 노르류신,

(NMe)M = N-메틸-Met,

(NMe)Nle = N-메틸-Nle,
 (NMe)K = N-메틸-Lys,
 (NMe)R = N-메틸-Arg,
 (NMe)Har = N-메틸-Har,
 Orn = 오르니틴,
 Orn(NO₂)= 오르니틴(니트로),
 po = 경구투여(per-oral administration),
 Phe = 페닐알라닌,
 PTH = 부갑상선 호르몬,
 PTH-1r 작용물질 = 부갑상선 호르몬 수용체 작용물질,
 PyBOP = 벤조트리아졸-1-일-옥시-트리스-피롤리디노-포스포늄 헥사플루오로포스페이트,
 Pyr = 피로글루탐산(Pyroglutamic acid),
 Pro = 프롤린,
 sc = 피하경로 투여(Subcutaneous route of administration),
 SPPS = 고체상 펩티드 합성(Solid Phase Peptide Synthesis),
 SMet= 셀레노메티오닌,
 TMS = 트리메틸실릴,
 TIPS = 트라이소프로필실란,
 TFA = 트리플루오로아세트산,
 TBTU= 2-(1H-벤조트리아졸-1-일)-1,1,3,3-테트라메틸아미늄 테트라메틸아미니움 테트라플루오로보레이트,
 Trt= 트리틸기(Trityl group),
 Trp= 트립토판,
 Val= 발린,
 WR= 위스타 랫(Wistar Rats).

도면

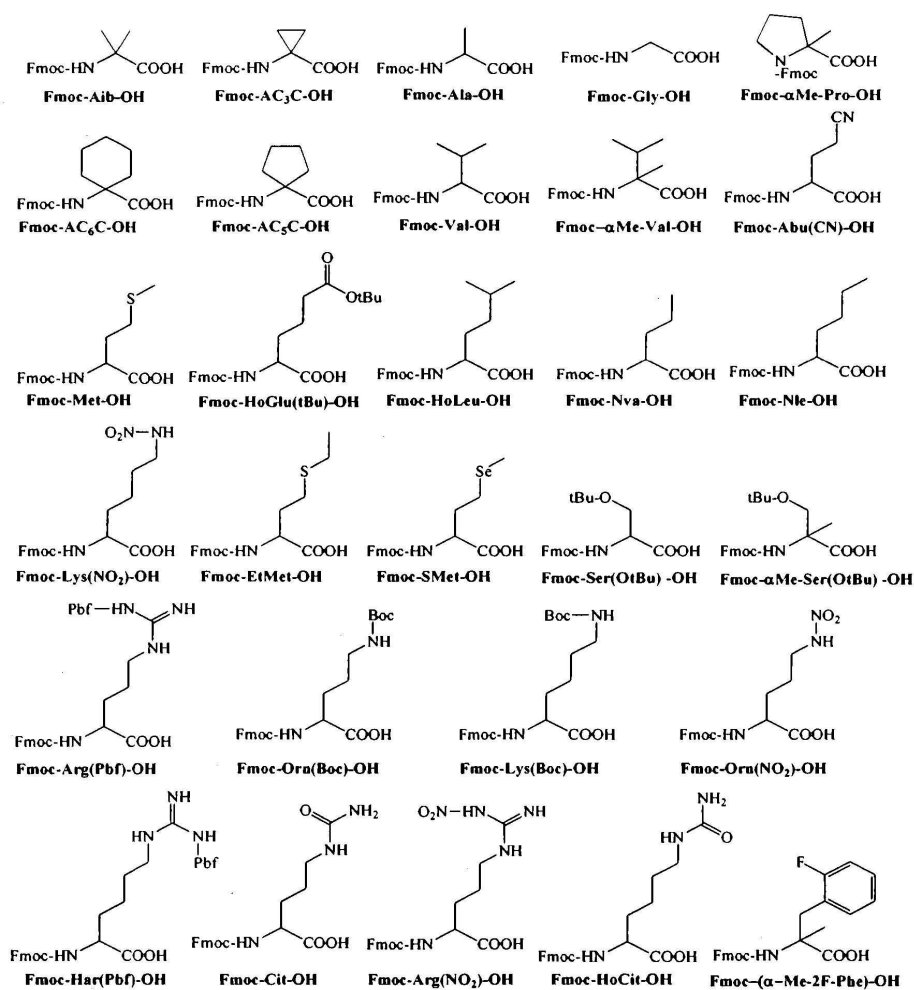
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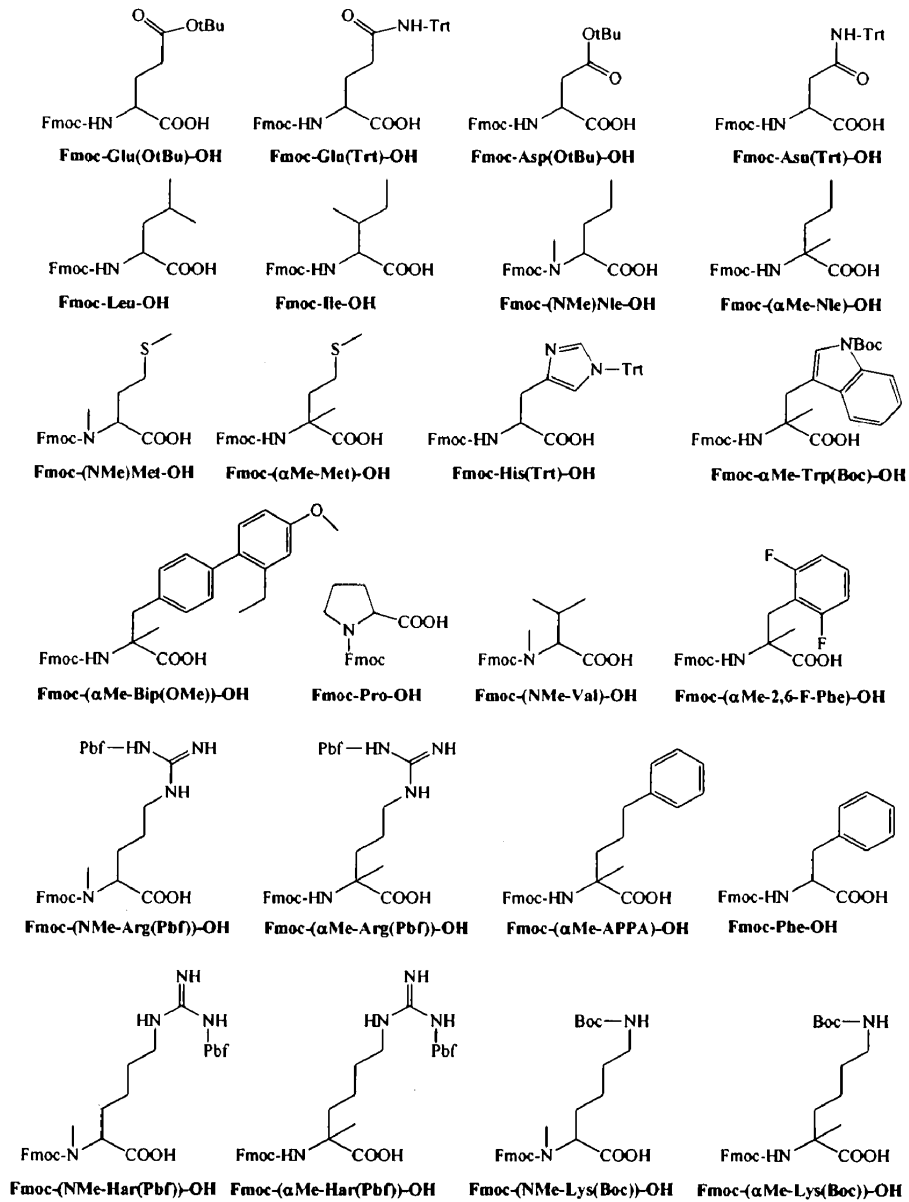
랫 PTH-1 R 검정에서 생체외에서의 PTH(1-34)(A) 및 Seq. ID No. 111(B)의 DRC 및 EC₅₀ 측정
(방출된 cAMP의 양으로 측정된 효능적 활성)

도면2a

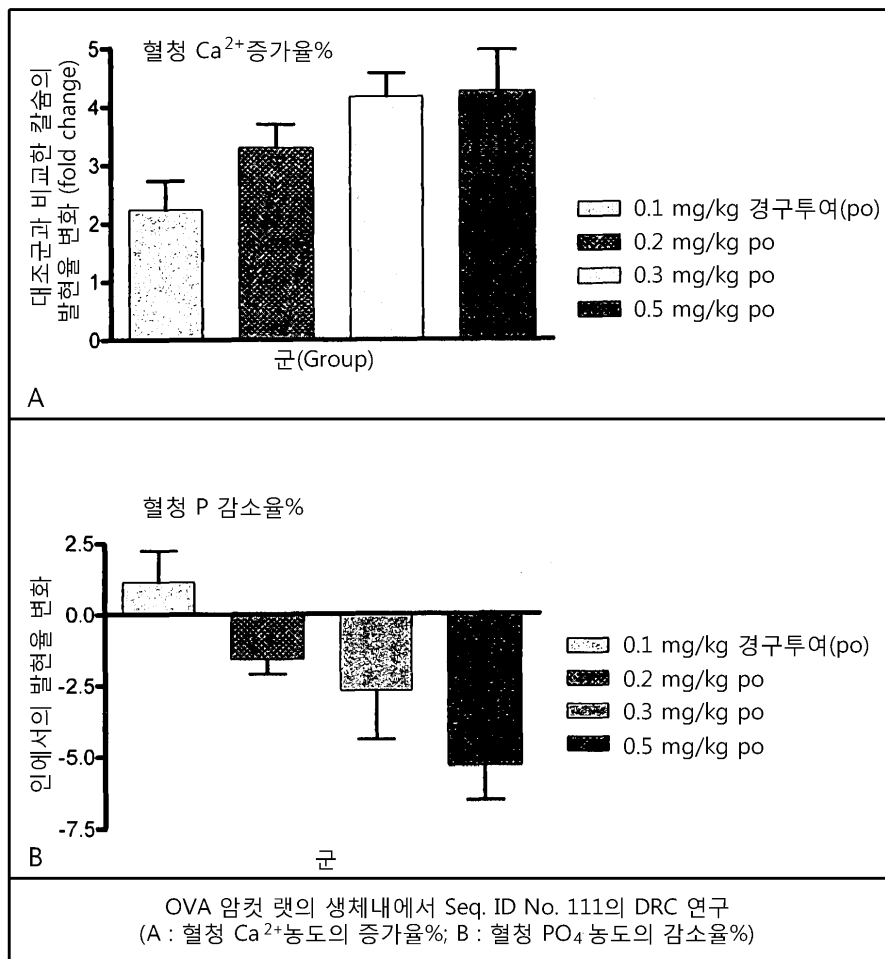
단쇄 펩티드의 Fmoc 기반 - 고체상 펩티드 합성(SPPS)에 사용된 직교하여
보호된 아미노산의 예



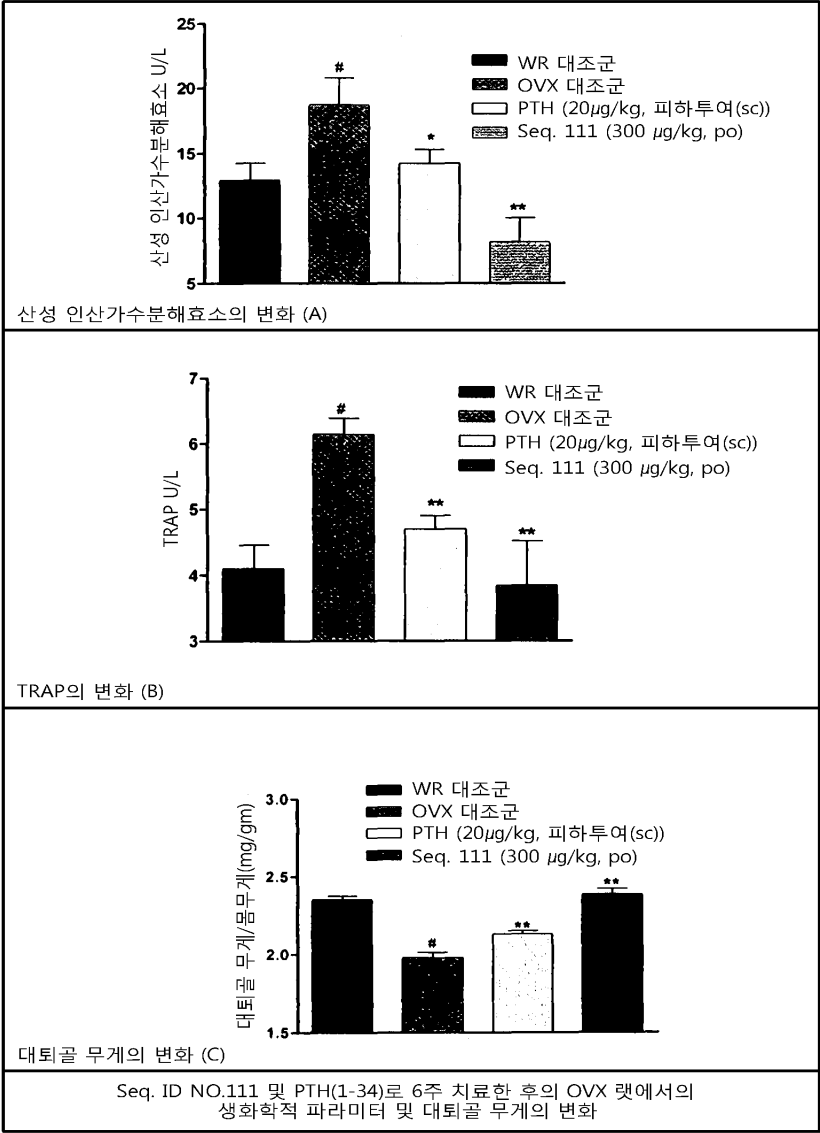
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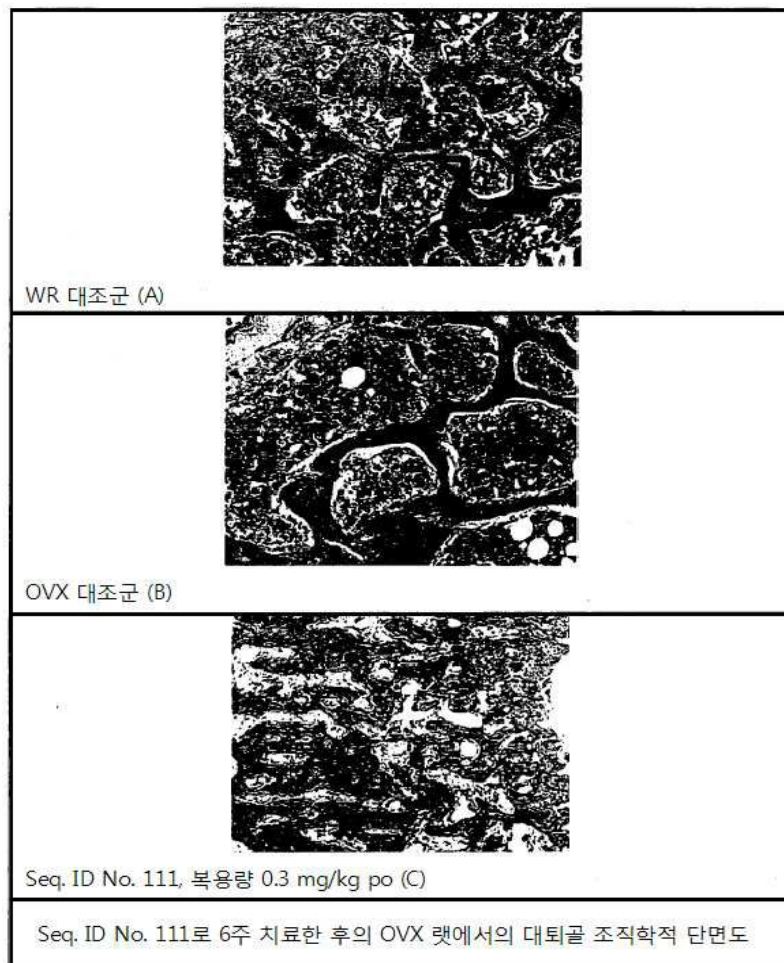
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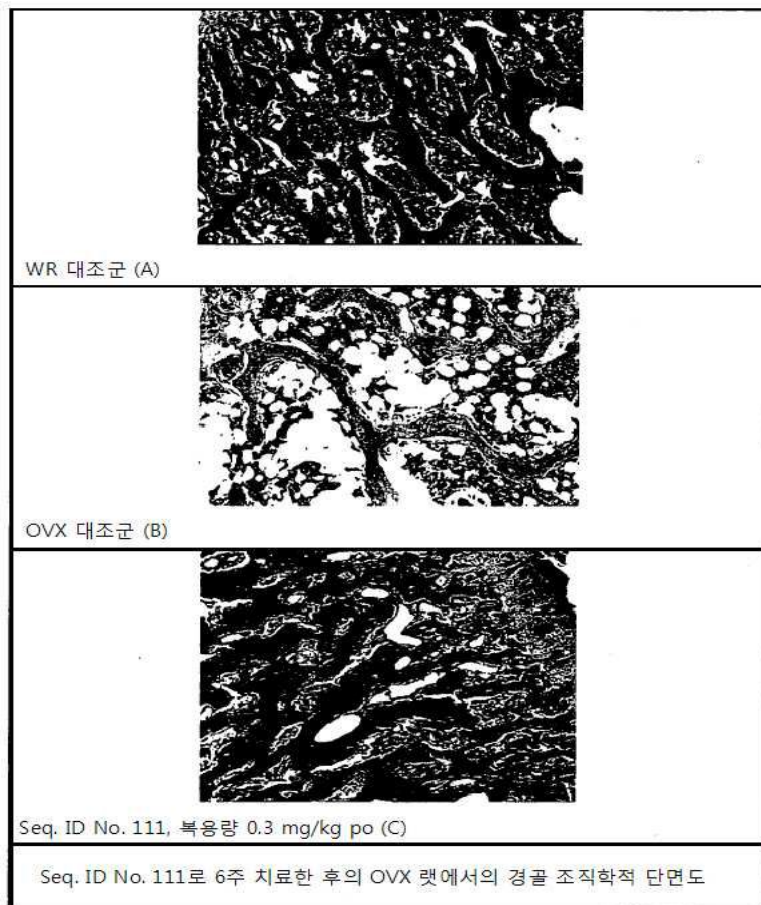
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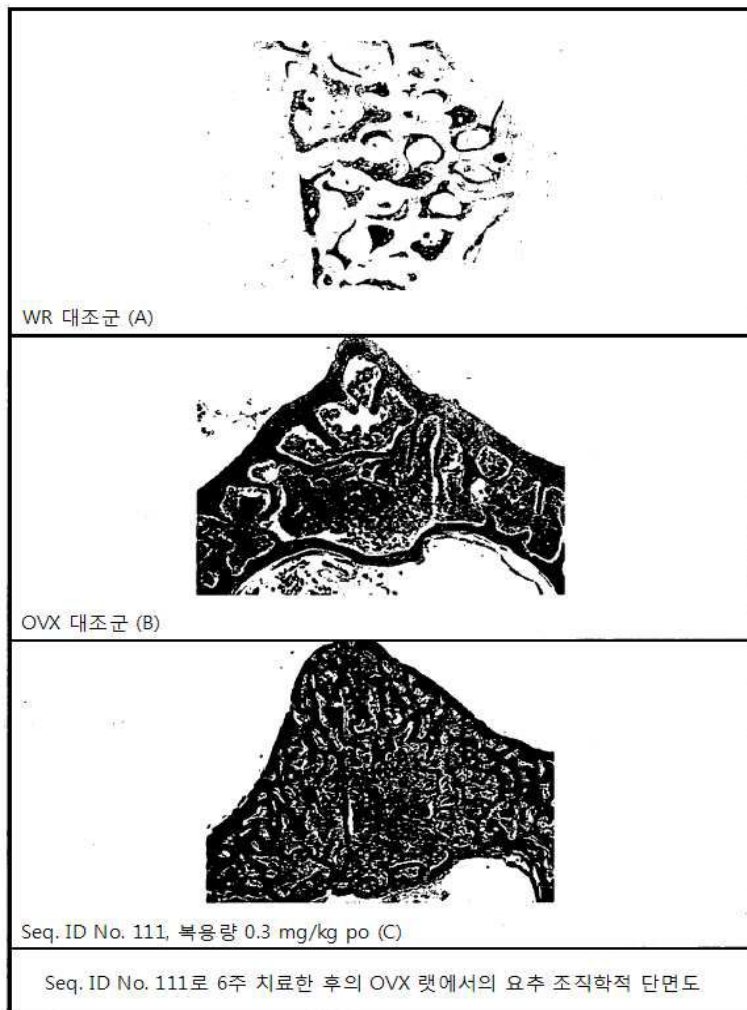
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도면6



도면7



서열 목록

<110> CADILA HEALTHCARE LIMITED

BAHEKAR, Rajesh H.

JAIN, Mukul R.

PATEL, Pankaj R.

<120> Short-chain peptides as parathyroid hormone (PTH) receptor

<130> MC-99-109

<150> 1095/MUM/2009

<151> 2009-04-24

<150> 225/MUM/2010

<151> 2010-01-28

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<223> Modified residue at this position is alpha-methyl-phenylalanine

(alpha-Me-Phe-), which structurally mimics Phenylalanine

<400> 23

Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Lys Phe

1 5 10

<210> 24

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is alpha-amino isobutyric acid

(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino isobutyric acid

(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is

alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which

structurally mimics Phenylalanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle), which

structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har), which

structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is alpha-methyl-phenylalanine
(alpha-Me-Phe-), which structurally mimics Phenylalanine

<400> 24

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1 5 10

<210> 25

<211> 14

<212> PRT

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(Aib), which structurally mimics Alanine

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(Aib), which structurally mimics Alanine

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<222> (7)..(7)

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structurally mimics Phenylalanine

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<222> (11)..(11)

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structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (12)..(12)

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(alpha-Me-Pro), which structurally mimics Proline

<220><221> MISC_FEATURE

<222> (14)..(14)

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1 5 10

<210> 26

<211> 14

<212> PRT

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<220><221> MISC_FEATURE

<222> (3)..(3)

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(Aib), which structurally mimics Alanine

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<220><221> MISC_FEATURE

<222> (11)..(11)

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structurally mimics Arginine

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<222> (12)..(12)

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(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is alpha-methyl-phenylalanine
(alpha-Me-Phe-), which structurally mimics Phenylalanine

<400> 26

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1 5 10

<210> 27

<211> 14

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carboxylic acid, which structurally mimics Alanine

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(Aib), which structurally mimics Alanine

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structurally mimics Phenylalanine

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structurally mimics Methionine

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<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har), which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

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223> Modified residue at this position is alpha-methyl-phenylalanine (alpha-Me-Phe-), which structurally mimics Phenylalanine

<400> 27

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1 5 10

<210> 28

<211> 14

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carboxylic acid, which structurally mimics Alanine

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structurally mimics Methionine

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<222> (11)..(11)

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<220><221> MISC_FEATURE

<222> (12)..(12)

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<222> (14)..(14)

<223> Modified residue at this position is alpha-methyl-phenylalanine (alpha-Me-Phe-), which structurally mimics Phenylalanine

<400> 28

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1 5 10

<210> 29

<211> 14

<212> PRT

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<222> (3)..(3)

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(Aib), which structurally mimics Alanine

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<222> (7)..(7)

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structurally mimics Phenylalanine

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<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle), which structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

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<222> (12)..(12)

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<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is alpha-methyl-phenylalanine (alpha-Me-Phe-), which structurally mimics Phenylalanine

<400> 29

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Lys Phe

1 5 10

<210> 30

<211> 14

<212> PRT

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<222> (7)..(7)

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structurally mimics Phenylalanine

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structurally mimics Methionine

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structurally mimics Arginine

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<222> (14)..(14)

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223> Modified residue at this position is alpha-methyl-phenylalanine
(alpha-Me-Phe-), which structurally mimics Phenylalanine

<400> 30

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Lys Phe

1 5 10

<210> 31

<211> 14

<212> PRT

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(Aib), which structurally mimics Alanine

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carboxylic acid, which structurally mimics Alanine

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structurally mimics Phenylalanine

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structurally mimics Methionine

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structurally mimics Arginine

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<222> (12)..(12)

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(alpha-Me-Pro), which structurally mimics Proline

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is alpha-methyl-phenylalanine

(alpha-Me-Phe-), which structurally mimics Phenylalanine

<400> 31

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1 5 10

<210> 32

<211> 14

<212> PRT

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(Aib), which structurally mimics Alanine

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carboxylic acid, which structurally mimics Alanine

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structurally mimics Phenylalanine

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structurally mimics Methionine

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structurally mimics Arginine

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<222> (12)..(12)

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(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is alpha-methyl-phenylalanine

(alpha-Me-Phe-), which structurally mimics Phenylalanine

<400> 32

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1

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10

<210> 33

<211> 14

<212> PRT

<213> Artificial

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<222> (7)..(7)

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<220><221> MISC_FEATURE

<222> (11)..(11)

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<220><221> MISC_FEATURE

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> (14)..(14)

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<400> 33

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1 5 10

<210> 34

<211> 14

<212> PRT

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carboxylic acid, which structurally mimics Alanine

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carboxylic acid, which structurally mimics Alanine

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<222> (7)..(7)

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alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which

structurally mimics Phenylalanine

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structurally mimics Methionine

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structurally mimics Arginine

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<222> (12)..(12)

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(alpha-Me-Pro), which structurally mimics Proline

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<222> (14)..(14)

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(alpha-Me-Phe-), which structurally mimics Phenylalanine

<400> 34

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1 5 10

<210> 35

<211> 14

<212> PRT

<213> Artificial

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carboxylic acid, which structurally mimics Alanine

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carboxylic acid, which structurally mimics Alanine

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structurally mimics Phenylalanine

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structurally mimics Methionine

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structurally mimics Arginine

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(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (14)..(14)

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(alpha-Me-Phe-), which structurally mimics Phenylalanine

<400> 35

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1 5 10

<210> 36

<211> 14

<212> PRT

<213> Artificial

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prepared

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(Aib), which structurally mimics Alanine

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<223> Modified residue at this position is alpha-amino isobutyric acid
(Aib), which structurally mimics Alanine

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222> (7)..(7)

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alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which
structurally mimics Phenylalanine

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structurally mimics Methionine

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<222> (11)..(11)

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structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is alpha-methyl-phenylalanine
(alpha-Me-Phe-), which structurally mimics Phenylalanine

<400> 36

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Lys Phe

1 5 10

<210> 37

<211> 14

<212> PRT

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prepared

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(Aib), which structurally mimics Alanine

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(Aib), which structurally mimics Alanine

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<222> (7)..(7)

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alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which
structurally mimics Phenylalanine

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<223> Modified residue at this position is Norleucine (Nle), which

structurally mimics Methionine

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<222> (12)..(12)

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<222> (14)..(14)

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<400> 37

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Pro Lys Phe

1 5 10

<210> 38

<211> 14

<212> PRT

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<222> (14)..(14)

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<400> 38

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Lys Phe

1 5 10

<210> 39

<211> 14

<212> PRT

<213> Artificial

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<220><221> MISC_FEATURE

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structurally mimics Phenylalanine

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structurally mimics Methionine

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structurally mimics Arginine

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<222> (14)..(14)

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(alpha-Me-Phe-), which structurally mimics Phenylalanine

<400> 39

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Lys Phe

1 5 10

<210> 40

<211> 14

<212> PRT

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carboxylic acid, which structurally mimics Alanine

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(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

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 (alpha-Me-Pro), which structurally mimics Proline

<220><221> MISC_FEATURE

<222> (14)..(14)

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 (alpha-Me-Phe-), which structurally mimics Phenylalanine

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1 5 10

<210> 41

<211> 14

<212> PRT

<213> Artificial

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carboxylic acid, which structurally mimics Alanine

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<222> (3)..(3)

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(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

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structurally mimics Phenylalanine

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structurally mimics Methionine

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structurally mimics Arginine

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(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is alpha-methyl-phenylalanine
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1 5 10

<210> 42

<211> 14

<212> PRT

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(Aib), which structurally mimics Alanine

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carboxylic acid, which structurally mimics Alanine

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structurally mimics Phenylalanine

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structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har), which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is alpha-methyl-phenylalanine
(alpha-Me-Phe-), which structurally mimics Phenylalanine

<400> 42

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Lys Phe

1 5 10

<210> 43

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is alpha-amino isobutyric acid

(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is Amino cyclopentane carboxylic acid, which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which structurally mimics Phenylalanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle), which structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har), which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (12)..(12)

<223> Modified residue at this position is -alpha-methyl proline (alpha-Me-Pro), which structurally mimics Proline

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is alpha-methyl-phenylalanine

(alpha-Me-Phe-), which structurally mimics Phenylalanine

<400> 43

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Pro Lys Phe

1 5 10

<210> 44

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is alpha-amino isobutyric acid

(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is Amino cyclopentane

carboxylic acid, which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is

alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which

structurally mimics Phenylalanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle), which

structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har), which

structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (12)..(12)

<223> Modified residue at this position is alpha-amino isobutyric acid
(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (14)..(114)

<223> Modified residue at this position is alpha-methyl-phenylalanine
(alpha-Me-Phe-), which structurally mimics Phenylalanine

<400> 44

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Lys Phe

1 5 10

<210> 45

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is Amino cyclopentane
carboxylic acid, which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is Amino cyclopentane
carboxylic acid, which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is
alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which
structurally mimics Phenylalanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle), which
structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har), which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is alpha-methyl-phenylalanine (alpha-Me-Phe-), which structurally mimics Phenylalanine

<400> 45

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Lys Phe

1 5 10

<210> 46

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is Amino cyclopentane

carboxylic acid, which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is Amino cyclopentane carboxylic acid, which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which structurally mimics Phenylalanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle), which

structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har), which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (12)..(12)

<223> Modified residue at this position is α -methyl proline (α -Me-Pro), which structurally mimics Proline

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is α -methyl-phenylalanine (α -Me-Phe-), which structurally mimics Phenylalanine

<400> 46

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Pro Lys Phe

1 5 10

<210> 47

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is Amino cyclopentane carboxylic acid, which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is Amino cyclopentane

carboxylic acid, which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is α -methyl-2,6-F-phenylalanine (α -Me-2,6-F-Phe), which structurally mimics Phenylalanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle), which structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har), which

structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (12)..(12)

<223> Modified residue at this position is alpha-amino isobutyric acid (Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is alpha-methyl-phenylalanine (alpha-Me-Phe-), which structurally mimics Phenylalanine

<400> 47

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Lys Phe

1 5 10

<210> 48

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is Amino cyclopentane carboxylic acid, which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is Amino cyclopentane carboxylic acid, which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is
alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which
structurally mimics Phenylalanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle), which
structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (10)..(10)

<223> Modified residue at this position is 2-amino-4-cyanobutanoic acid
(Abu (CN)), which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har), which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is alpha-methyl-phenylalanine
(alpha-Me-Phe-), which structurally mimics Phenylalanine

<400> 48

Ala Val Ala Glu Ile Gln Phe Met His Arg Arg Ala Lys Phe

1 5 10

<210> 49

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is Amino cyclopentane
carboxylic acid, which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino isobutyric acid
(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is
alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which
structurally mimics Phenylalanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle), which
structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har), which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is alpha-methyl-phenylalanine
(alpha-Me-Phe-), which structurally mimics Phenylalanine

<400> 49

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Lys Phe

1 5 10

<210> 50

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is Amino cyclopentane
carboxylic acid, which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino isobutyric acid (Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which structurally mimics Phenylalanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle), which structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har), which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (12)..(12)

<223> Modified residue at this position is -alpha-methyl proline (alpha-Me-Pro), which structurally mimics Proline

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is alpha-methyl-phenylalanine (alpha-Me-Phe-), which structurally mimics Phenylalanine

<400> 50

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Pro Lys Phe

1 5 10

<210> 51

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is Amino cyclopentane
carboxylic acid, which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino isobutyric acid
(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is

alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which
structurally mimics Phenylalanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle), which
structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har), which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (12)..(12)

<223> Modified residue at this position is alpha-amino isobutyric acid

(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is alpha-methyl-phenylalanine
(alpha-Me-Phe-), which structurally mimics Phenylalanine

<400> 51

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Lys Phe

1

5

10

<210> 52

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is Amino cyclopentane
carboxylic acid, which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is Amino cyclopentane
carboxylic acid, which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is
alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which
structurally mimics Phenylalanine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har), which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is alpha-methyl-phenylalanine
(alpha-Me-Phe-), which structurally mimics Phenylalanine

<400> 52

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Lys Phe

1 5 10

<210> 53

<211> 14

<212> PRT

<213>

> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is Amino cyclopentane
carboxylic acid, which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is Amino cyclopentane
carboxylic acid, which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is

alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which
structurally mimics Phenylalanine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har), which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (12)..(12)

<223> Modified residue at this position is -alpha-methyl proline
(alpha-Me-Pro), which structurally mimics Proline

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is alpha-methyl-phenylalanine

(alpha-Me-Phe-), which structurally mimics Phenylalanine

<400> 53

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Pro Lys Phe

1 5 10

<210> 54

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is Amino cyclopentane
carboxylic acid, which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is Amino cyclopentane
carboxylic acid, which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is
alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which
structurally mimics Phenylalanine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har), which
structurally mimics Arginine

<220><221>

> MISC_FEATURE

<222> (12)..(12)

<223> Modified residue at this position is alpha-amino isobutyric acid
(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is alpha-methyl-phenylalanine
(alpha-Me-Phe-), which structurally mimics Phenylalanine

<400> 54

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Lys Phe

1 5 10

<210> 55

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is alpha-amino isobutyric acid

(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino isobutyric acid

(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is

alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which

structurally mimics Phenylalanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle), which

structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har), which

structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is

alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which

structurally mimics Phenylalanine

<400> 55

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Lys Phe

1

5

10

<210> 56

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is alpha-amino isobutyric acid
(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<

222> (3)..(3)

<223> Modified residue at this position is alpha-amino isobutyric acid
(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is
alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which
structurally mimics Phenylalanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle), which
structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har), which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (12)..(12)

<223> Modified residue at this position is -alpha-methyl proline
(alpha-Me-Pro), which structurally mimics Proline

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is alpha-methyl-phenylalanine

(alpha-Me-Phe-), which structurally mimics Phenylalanine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is
alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which
structurally mimics Phenylalanine

<400> 56

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Pro Lys Phe

1 5 10

<210> 57

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is alpha-amino isobutyric acid

(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino isobutyric acid

(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is
alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which
structurally mimics Phenylalanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle), which

structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har), which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (12)..(12)

<223> Modified residue at this position is alpha-amino isobutyric acid (Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which structurally mimics Phenylalanine

structurally mimics Phenylalanine

<400> 57

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Lys Phe

1 5 10

<210> 58

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is Amino cyclopropane carboxylic acid, which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino isobutyric acid (Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which structurally mimics Phenylalanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle), which structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har), which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which structurally mimics Phenylalanine

<400> 58

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Lys Phe

1 5 10

<210> 59

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is Amino cyclopropane carboxylic acid, which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino isobutyric acid (Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which

structurally mimics Phenylalanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle), which structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har), which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (12)..(12)

<223> Modified residue at this position is -alpha-methyl proline (alpha-Me-Pro), which structurally mimics Proline

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which structurally mimics Phenylalanine

<400> 59

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Pro Lys Phe

1 5 10

<210> 60

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is Amino cyclopropane

carboxylic acid, which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino isobutyric acid
(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is
alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which
structurally mimics Phenylalanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle), which

structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har), which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (12)..(12)

<223> Modified residue at this position is alpha-amino isobutyric acid
(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is
alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which

structurally mimics Phenylalanine

<400> 60

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Lys Phe

1 5 10

<210> 61

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is alpha-amino isobutyric acid (Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is Amino cyclopentane carboxylic acid, which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which structurally mimics Phenylalanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle), which structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har), which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which structurally mimics Phenylalanine

<400> 61

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Lys Phe

1 5 10

<210> 62

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is alpha-amino isobutyric acid
(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is Amino cyclopentane
carboxylic acid, which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is
alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which
structurally mimics Phenylalanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle), which
structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har), which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (12)..(12)

<223> Modified residue at this position is -alpha-methyl proline
(alpha-Me-Pro), which structurally mimics Proline

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is
alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which
structurally mimics Phenylalanine

<400> 62

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Pro Lys Phe

1 5 10

<210> 63

<211> 14

<212> PRT

<213> Artificial

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<220><221> MISC_FEATURE

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(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is Amino cyclopentane
carboxylic acid, which structurally mimics Alanine

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<222> (7)..(7)

<223> Modified residue at this position is
alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which
structurally mimics Phenylalanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle), which

structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har), which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (12)..(12)

<223> Modified residue at this position is alpha-amino isobutyric acid
(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is
alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which

structurally mimics Phenylalanine

<400> 63

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Lys Phe

1 5 10

<210> 64

<211> 14

<212> PRT

<213> Artificial

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<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is Amino cyclopentane
carboxylic acid, which structurally mimics Alanine

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<222> (3)..(3)

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carboxylic acid, which structurally mimics Alanine

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<222> (7)..(7)

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structurally mimics Phenylalanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle), which
structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har), which

structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is
alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which
structurally mimics Phenylalanine

<400> 64

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Lys Phe

1 5 10

<210> 65

<211> 14

<212> PRT

<213> Artificial

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<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is Amino cyclopentane
carboxylic acid, which structurally mimics Alanine

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<222> (3)..(3)

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carboxylic acid, which structurally mimics Alanine

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<222> (7)..(7)

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structurally mimics Phenylalanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle), which
structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har), which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (12)..(12)

<223> Modified residue at this position is α -methyl proline (α -Me-Pro), which structurally mimics Proline

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is α -methyl-2F-phenylalanine (α -Me-2F-Phe), which structurally mimics Phenylalanine

<400> 65

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Pro Lys Phe

1 5 10

<210> 66

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223>

> Modified residue at this position is Amino cyclopentane carboxylic acid, which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is Amino cyclopentane carboxylic acid, which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

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<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle), which structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har), which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (12)..(12)

<223> Modified residue at this position is alpha-amino isobutyric acid (Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is

alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which structurally mimics Phenylalanine

<400> 66

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Lys Phe

1 5 10

<210> 67

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is Amino cyclopentane carboxylic acid, which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino isobutyric acid

(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is
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structurally mimics Phenylalanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle), which
structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har), which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is
alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which
structurally mimics Phenylalanine

<400> 67

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Lys Phe

1 5 10

<210> 68

<211> 14

<212

> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is Amino cyclopentane
carboxylic acid, which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino isobutyric acid
(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is

alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which
structurally mimics Phenylalanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle), which
structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har), which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (12)..(12)

<223> Modified residue at this position is -alpha-methyl proline

(alpha-Me-Pro), which structurally mimics Proline

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is
alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which
structurally mimics Phenylalanine

<400> 68

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Pro Lys Phe

1 5 10

<210> 69

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is Amino cyclopentane
carboxylic acid, which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino isobutyric acid
(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is
alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which
structurally mimics Phenylalanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle), which
structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har), which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (12)..(12)

<223> Modified residue at this position is alpha-amino isobutyric acid
(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222>

> (14)..(14)

<223> Modified residue at this position is
alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which
structurally mimics Phenylalanine

<400> 69

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Lys Phe

1 5 10

<210> 70

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is alpha-amino isobutyric acid

(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino isobutyric acid

(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is

alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which structurally mimics Phenylalanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle), which

structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har), which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is Lysine Biotin (K (Biotin)), which structurally mimics Lysine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is
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structurally mimics Phenylalanine

<400> 70
Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Lys Phe
1 5 10

<210> 71
<211> 14
<212> PRT
<213> Artificial

<220><223> This short-chain peptide was synthetically generated and
prepared

<220><221> MISC_FEATURE
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<223> Modified residue at this position is alpha-amino isobutyric acid
(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino isobutyric acid
(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE
<222> (7)..(7)

<223> Modified residue at this position is
alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which
structurally mimics Phenylalanine

<220><221> MISC_FEATURE
<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle), which
structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har), which

structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is
alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which
structurally mimics Phenylalanine

<400> 71

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Lys Phe

1 5 10

<210> 72

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

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<223> Modified residue at this position is alpha-amino isobutyric acid
(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino isobutyric acid
(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

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alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which

structurally mimics Phenylalanine

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<222> (8)..(8)

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structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har), which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (12)..(12)

<223> Modified residue at this position is α -methyl proline (α -Me-Pro), which structurally mimics Proline

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is α -methyl-2F-phenylalanine (α -Me-2F-Phe), which structurally mimics Phenylalanine

<400> 72

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Pro Lys Phe

1 5 10

<210> 73

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

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<223>

> Modified residue at this position is α -amino isobutyric acid (Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is α -amino isobutyric acid (Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is α -methyl-2,6-F-phenylalanine (α -Me-2,6-F-Phe), which structurally mimics Phenylalanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle), which structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har), which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (12)..(12)

<223> Modified residue at this position is alpha-amino isobutyric acid (Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is

alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which structurally mimics Phenylalanine

<400> 73

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Lys Phe

1 5 10

<210> 74

<211> 14

<212> PRT

<213> Artificial

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<220><221> MISC_FEATURE

<222> (3)..(3)

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(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

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alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which
structurally mimics Phenylalanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle), which
structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har), which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is
alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which
structurally mimics Phenylalanine

<400> 74

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Lys Phe

1 5 10

<210> 75

<211> 14

<212>

> PRT

<213> Artificial

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carboxylic acid, which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

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<220><221> MISC_FEATURE

<222> (7)..(7)

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alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which structurally mimics Phenylalanine

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<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle), which structurally mimics Methionine

<220><221> MISC_FEATURE

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<223> Modified residue at this position is Homoarginine (Har), which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (12)..(12)

<223> Modified residue at this position is -alpha-methyl proline

(alpha-Me-Pro), which structurally mimics Proline

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is

alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which structurally mimics Phenylalanine

<400> 75

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Pro Lys Phe

1 5 10

<210> 76

<211> 14

<212> PRT

<213> Artificial

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carboxylic acid, which structurally mimics Alanine

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<222> (3)..(3)

<223> Modified residue at this position is alpha-amino isobutyric acid
(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

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structurally mimics Phenylalanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle), which
structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har), which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (12)..(12)

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(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

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> (14)..(14)

<223> Modified residue at this position is
alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which
structurally mimics Phenylalanine

<400> 76

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Lys Phe

1 5 10

<210> 77

<211> 14

<212> PRT

<213> Artificial

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(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

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carboxylic acid, which structurally mimics Alanine

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<222> (7)..(7)

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alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which
structurally mimics Phenylalanine

<220><221> MISC_FEATURE

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<223> Modified residue at this position is Norleucine (Nle), which

structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har), which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is
alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which
structurally mimics Phenylalanine

<400> 77

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Lys Phe

1 5 10

<210> 78

<211> 14

<212> PRT

<213> Artificial

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<220><221> MISC_FEATURE

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<223> Modified residue at this position is alpha-amino isobutyric acid
(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is Amino cyclopentane
carboxylic acid, which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

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alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which
structurally mimics Phenylalanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle), which
structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har), which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (12)..(12)

<223> Modified residue at this position is -alpha-methyl proline

(alpha-Me-Pro), which structurally mimics Proline

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is
alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which
structurally mimics Phenylalanine

<400> 78

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Pro Lys Phe

1 5 10

<210> 79

<211> 14

<212> PRT

<213> Artificial

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<223> Modified residue at this position is alpha-amino isobutyric acid
(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

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(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

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structurally mimics Phenylalanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle), which
structurally mimics Methionine

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<222> (11)..(11)

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<220><221> MISC_FEATURE

<222> (12)..(12)

<223> Modified residue at this position is alpha-amino isobutyric acid (Aib), which structurally mimics Alanine

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<222> (14)..(14)

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1 5 10

<210> 80

<211> 14

<212> PRT

<213> Artificial

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1 5 10

<210> 81

<211> 14

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1 5 10

<210> 82

<211> 14

<212> PRT

<213> Artificial

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1 5 10

<210> 83

<211> 14

<212> PRT

<213> Artificial

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structurally mimics Phenylalanine

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1	5	10

<210> 84

<211> 14

<212> PRT

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(Aib), which structurally mimics Alanine

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structurally mimics Arginine

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(alpha-Me-Pro), which structurally mimics Proline

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alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which
structurally mimics Phenylalanine

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1

5

10

<210> 85

<211> 14

<212> PRT

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structurally mimics Phenylalanine

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1 5 10

<210> 86

<211> 14

<212> PRT

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carboxylic acid, which structurally mimics Alanine

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(Aib), which structurally mimics Alanine

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<400> 86

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1 5 10

<210> 87

<211> 14

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acid, which structurally mimics Alanine

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1 5 10

<210> 88

<211> 14

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(alpha-Me-Pro), which structurally mimics Proline

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structurally mimics Phenylalanine

<400> 88

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1 5 10

<210> 89

<211> 14

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<222> (14)..(14)

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<400> 89

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Lys Phe

1 5 10

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<211> 14

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        structurally mimics Arginine
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        alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which

        structurally mimics Phenylalanine
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1           5           10
<210>  91
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structurally mimics Phenylalanine

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structurally mimics Arginine

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(alpha-Me-Pro), which structurally mimics Proline

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structurally mimics Phenylalanine

<400> 91

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1 5 10

<210> 92

<211> 14

<212> PRT

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1 5 10

<210> 93

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1 5 10

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structurally mimics Methionine

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1 5 10

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carboxylic acid, which structurally mimics Alanine

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<223> Modified residue at this position is
alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which
structurally mimics Phenylalanine

<400> 97

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Pro Lys Phe

1 5 10

<210> 98

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is alpha-amino isobutyric acid

(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is Amino cyclopentane
carboxylic acid, which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is
alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which
structurally mimics Phenylalanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle), which

structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har), which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (12)..(12)

<223> Modified residue at this position is alpha-amino isobutyric acid
(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is
alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which

structurally mimics Phenylalanine

<400> 98

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Lys Phe

1 5 10

<210> 99

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

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carboxylic acid, which structurally mimics Alanine

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carboxylic acid, which structurally mimics Alanine

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structurally mimics Phenylalanine

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structurally mimics Methionine

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structurally mimics Arginine

<220><221> MISC_FEATURE

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(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

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<223> Modified residue at this position is
alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which
structurally mimics Phenylalanine

<400> 99

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Lys Phe

1 5 10

<210> 100

<211> 14

<212> PRT

<213> Artificial

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carboxylic acid, which structurally mimics Alanine

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carboxylic acid, which structurally mimics Alanine

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structurally mimics Phenylalanine

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structurally mimics Arginine

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(alpha-Me-Pro), which structurally mimics Proline

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<222> (14)..(14)

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alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which
structurally mimics Phenylalanine

<400> 100

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1 5 10

<210> 101

<211> 14

<212> PRT

<213> Artificial

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carboxylic acid, which structurally mimics Alanine

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carboxylic acid, which structurally mimics Alanine

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structurally mimics Phenylalanine

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<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har), which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (12)..(12)

<223> Modified residue at this position is alpha-amino isobutyric acid (Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which structurally mimics Phenylalanine

<400> 101

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Lys Phe

1 5 10

<210> 102

<211> 14

<212> PRT

<213> Artificial

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<222> (7)..(7)

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structurally mimics Phenylalanine

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structurally mimics Methionine

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<223> Modified residue at this position is Homoarginine (Har), which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is
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structurally mimics Phenylalanine

<400> 102

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Lys Phe

1 5 10

<210> 103

<211> 14

<212> PRT

<213> Artificial

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carboxylic acid, which structurally mimics Alanine

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<222> (3)..(3)

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(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

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structurally mimics Phenylalanine

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structurally mimics Methionine

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<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har), which
structurally mimics Arginine

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<222> (12)..(12)

<223> Modified residue at this position is -alpha-methyl proline
(alpha-Me-Pro), which structurally mimics Proline

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is
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structurally mimics Phenylalanine

<400

> 103

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Pro Lys Phe

1 5 10

<210> 104

<211> 14

<212> PRT

<213> Artificial

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(Aib), which structurally mimics Alanine
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 <223> Modified residue at this position is Homoarginine (Har), which

structurally mimics Arginine
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 (Aib), which structurally mimics Alanine
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 structurally mimics Phenylalanine
 <400> 104

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 1 5 10

<210> 105

<211> 14

<212> PRT

<213> Artificial

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<222> (7)..(7)

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<223> Modified residue at this position is Norleucine (Nle), which structurally mimics Methionine

<220><221> MISC_FEATURE

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<223> Modified residue at this position is Homoarginine (Har), which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (12)..(12)

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<222> (14)..(14)

<223> Modified residue at this position is alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which

structurally mimics Phenylalanine

<400> 105

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Lys Phe

1 5 10

<210> 106

<211> 14

<212> PRT

<213> Artificial

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 (Aib), which structurally mimics Alanine

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 (Aib), which structurally mimics Alanine

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 structurally mimics Phenylalanine

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 structurally mimics Methionine

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 structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

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alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which

structurally mimics Phenylalanine

<400> 106

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Lys Phe

1 5 10

<210> 107

<211> 14

<212> PRT

<213> Artificial

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(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

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(Aib), which structurally mimics Alanine

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<222> (7)..(7)

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alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which

structurally mimics Phenylalanine

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structurally mimics Methionine

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<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har), which

structurally mimics Arginine

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(alpha-Me-Pro), which structurally mimics Proline

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alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which
structurally mimics Phenylalanine

<400

> 107

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Pro Lys Phe

1 5 10

<210> 108

<211> 14

<212> PRT

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(Aib), which structurally mimics Alanine

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(Aib), which structurally mimics Alanine

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structurally mimics Phenylalanine

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structurally mimics Methionine

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structurally mimics Arginine

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<222> (12)..(12)

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(Aib), which structurally mimics Alanine

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<222> (14)..(14)

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alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which

structurally mimics Phenylalanine

<400> 108

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Lys Phe

1 5 10

<210> 109

<211> 14

<212> PRT

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carboxylic acid, which structurally mimics Alanine

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<222> (3)..(3)

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(Aib), which structurally mimics Alanine

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<222> (14)..(14)

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<400> 109

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1 5 10

<210> 110

<211> 14

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structurally mimics Phenylalanine

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structurally mimics Methionine

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structurally mimics Arginine

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(alpha-Me-Pro), which structurally mimics Proline

<220><221> MISC_FEATURE

<222> (14)..(14)

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alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which

structurally mimics Phenylalanine

<400> 110

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Pro Lys Phe

1 5 10

<210> 111

<211> 14

<212> PRT

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carboxylic acid, which structurally mimics Alanine

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(3)..(3)

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<222> (14)..(14)

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1 5 10

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carboxylic acid, which structurally mimics Alanine

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structurally mimics Phenylalanine

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structurally mimics Methionine

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structurally mimics Arginine

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<222> (14)..(14)

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structurally mimics Phenylalanine

<400> 112

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Lys Phe

1 5 10

<210> 113

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(Aib), which structurally mimics Alanine

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carboxylic acid, which structurally mimics Alanine

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structurally mimics Methionine

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structurally mimics Arginine

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(alpha-Me-Pro), which structurally mimics Proline

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alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which
structurally mimics Phenylalanine

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1 5 10

<210> 114

<211> 14

<212> PRT

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(Aib), which structurally mimics Alanine

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carboxylic acid, which structurally mimics Alanine

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structurally mimics Phenylalanine

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structurally mimics Methionine

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structurally mimics Arginine

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(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

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structurally mimics Phenylalanine

<400> 114
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1 5 10

<210> 115

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prepared

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carboxylic acid, which structurally mimics Alanine

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carboxylic acid, which structurally mimics Alanine

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structurally mimics Methionine

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<222> (11)..(11)

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<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which structurally mimics Phenylalanine

<400> 115

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Lys Phe

1 5 10

<210> 116

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is Amino cyclopentane carboxylic acid, which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is Amino cyclopentane carboxylic acid, which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is

alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which structurally mimics Phenylalanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle), which

structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har), which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (12)..(12)

<223> Modified residue at this position is -alpha-methyl proline

(alpha-Me-Pro), which structurally mimics Proline

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which structurally mimics Phenylalanine

<400> 116

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Pro Lys Phe

1 5 10

<210> 117

<211> 14

<212> PRT

<213> Artificial

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<220><221> MISC_FEATURE

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<220><221> MISC_FEATURE

<222> (3)..(3)

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<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is

alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which
structurally mimics Phenylalanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle), which
structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har), which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (12)..(12)

<223> Modified residue at this position is alpha-amino isobutyric acid
(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222>

> (14)..(14)

<223> Modified residue at this position is
alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which
structurally mimics Phenylalanine

<400> 117

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Lys Phe

1 5 10

<210> 118

<211> 14

<212> PRT

<213> Artificial

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<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is Amino cyclopentane

carboxylic acid, which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino isobutyric acid (Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which structurally mimics Phenylalanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle), which structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har), which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which structurally mimics Phenylalanine

<400> 118

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Lys Phe

1 5 10

<210> 119

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

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<223> Modified residue at this position is Amino cyclopentane

carboxylic acid, which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

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<220><221> MISC_FEATURE

<222> (7)..(7)

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<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle), which structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har), which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (12)..(12)

<223> Modified residue at this position is -alpha-methyl proline (alpha-Me-Pro), which structurally mimics Proline

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which structurally mimics Phenylalanine

<400> 119

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Pro Lys Phe

1 5 10

<210> 120

<211> 14

<212>

PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

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carboxylic acid, which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is Amino cyclohexane carboxylic
acid, which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is

alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which
structurally mimics Phenylalanine

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<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle), which
structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

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structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (12)..(12)

<223> Modified residue at this position is alpha-amino isobutyric acid

(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is
alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which
structurally mimics Phenylalanine

<400> 120

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Lys Phe

1 5 10

<210> 121

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

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(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino isobutyric acid
(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is
alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which
structurally mimics Phenylalanine

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<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle), which
structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har), which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is Citrulline (Cit), which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is
alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which
structurally mimics Phenylalanine

<400> 121

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe

1 5 10

<210> 122

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

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(Aib), which structurally mimics Alanine

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(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

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structurally mimics Phenylalanine

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<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle), which

structurally mimics Methionine

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<222> (11)..(11)

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<220><221> MISC_FEATURE

<222> (12)..(12)

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<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is Citrulline (Cit), which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is alpha-methyl-phenylalanine (alpha-Me-Phe-), which structurally mimics Phenylalanine

<400> 122

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe

1 5 10

<210> 123

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

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carboxylic acid, which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino isobutyric acid (Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is

alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which
structurally mimics Phenylalanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle), which
structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har), which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is Citrulline (Cit), which
structurally mimics Arginine

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<222> (14)..(14)

<223> Modified residue at this position is
alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which
structurally mimics Phenylalanine

<400> 123

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe

1 5 10

<210> 124

<211> 14

<212> PRT

<213> Artificial

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carboxylic acid, which structurally mimics Alanine

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(Aib), which structurally mimics Alanine

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alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which

structurally mimics Phenylalanine

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structurally mimics Methionine

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<222> (11)..(11)

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structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (12)..(12)

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(Aib), which structurally mimics Alanine

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<222> (13)..(13)

<223> Modified residue at this position is Citrulline (Cit), which

structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is

alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which

structurally mimics Phenylalanine

<400> 124

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe

1

5

10

<210> 125

<211> 14

<212> PRT

<213> Artificial

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<220><221> MISC_FEATURE

<222> (7)..(7)

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<220><221> MISC_FEATURE

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<220><221> MISC_FEATURE

<222> (13)..(13)

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<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which

structurally mimics Phenylalanine

<400> 125

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe

1 5 10

<210> 126

<211> 14

<212> PRT

<213> Artificial

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(Aib), which structurally mimics Alanine

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carboxylic acid, which structurally mimics Alanine

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structurally mimics Phenylalanine

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structurally mimics Methionine

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<222> (11)..(11)

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structurally mimics Arginine

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(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is Citrulline (Cit), which
structurally mimics Arginine

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<222> (14)..(14)

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alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which
structurally mimics Phenylalanine

<400> 126

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe

1 5 10

<210> 127

<211> 14

<212> PRT

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carboxylic acid, which structurally mimics Alanine

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carboxylic acid, which structurally mimics Alanine

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alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which
structurally mimics Phenylalanine

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<220><221> MISC_FEATURE

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structurally mimics Arginine

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<222> (13)..(13)

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<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which structurally mimics Phenylalanine

<400> 127

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1 5 10

<210> 128

<211> 14

<212> PRT

<213> Artificial

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<222> (7)..(7)

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alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which
structurally mimics Phenylalanine

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structurally mimics Methionine

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<222> (11)..(11)

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structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (12)..(12)

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223> Modified residue at this position is alpha-amino isobutyric acid
(Aib), which structurally mimics Alanine

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<222> (13)..(13)

<223> Modified residue at this position is Citrulline (Cit), which
structurally mimics Arginine

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<222> (14)..(14)

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alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which
structurally mimics Phenylalanine

<400> 128

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe

1 5 10

<210> 129

<211> 14

<212> PRT

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carboxylic acid, which structurally mimics Alanine

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(Aib), which structurally mimics Alanine

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structurally mimics Phenylalanine

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structurally mimics Methionine

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structurally mimics Arginine

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><221> MISC_FEATURE

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structurally mimics Arginine

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<222> (14)..(14)

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alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which
structurally mimics Phenylalanine

<400> 129

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe

1	5	10

<210> 130

<211> 14

<212> PRT

<213> Artificial

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alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which structurally mimics Phenylalanine

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<220><221> MISC_FEATURE

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(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

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<220><221> MISC_FEATURE

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<223> Modified residue at this position is alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which structurally mimics Phenylalanine

<400> 130

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1 5 10

<210> 131

<211> 14

<212> PRT

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structurally mimics Methionine

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<222> (11)..(11)

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structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

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structurally mimics Arginine

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<222> (14)..(14)

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alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which
structurally mimics Phenylalanine

<400> 131

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe

1	5	10

<210> 132

<211> 14

<212> PRT

<213> Artificial

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(Aib), which structurally mimics Alanine

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(Aib), which structurally mimics Alanine

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structurally mimics Phenylalanine

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structurally mimics Methionine

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structurally mimics Arginine

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(Aib), which structurally mimics Alanine

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structurally mimics Arginine

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structurally mimics Phenylalanine

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Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe

1 5 10

<210> 133

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<212> PRT

<213> Artificial

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prepared

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carboxylic acid, which structurally mimics Alanine

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alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which
structurally mimics Phenylalanine

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structurally mimics Arginine

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structurally mimics Arginine

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structurally mimics Phenylalanine

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<400> 138

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<210> 140

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<210> 142

<211> 14

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1 5 10

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<222> (13)..(13)

<223> Modified residue at this position is Citrulline (Cit), which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is

alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which
structurally mimics Phenylalanine

<400> 149

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe

1 5 10

<210> 150

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is Amino cyclopentane
carboxylic acid, which structurally mimics Alanine

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<222> (3)..(3)

<223> Modified residue at this position is alpha-amino isobutyric acid
(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

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structurally mimics Phenylalanine

<220><221> MISC_FEATURE

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<223> Modified residue at this position is Norleucine (Nle), which
structurally mimics Methionine

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<222> (11)..(11)

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structurally mimics Arginine

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(Aib), which structurally mimics Alanine

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structurally mimics Arginine

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> (14)..(14)

<223> Modified residue at this position is

alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which
structurally mimics Phenylalanine

<400> 150

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe

1 5 10

<210> 151

<211> 14

<212> PRT

<213> Artificial

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(Aib), which structurally mimics Alanine

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(Aib), which structurally mimics Alanine

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structurally mimics Arginine

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<222> (13)..(13)

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structurally mimics Arginine

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<222> (14)..(14)

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structurally mimics Phenylalanine

<400> 151

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe

1 5 10

<210> 152

<211> 14

<212> PRT

<213> Artificial

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(Aib), which structurally mimics Alanine

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(Aib), which structurally mimics Alanine

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<222> (14)..(14)

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<400> 152

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1 5 10

<210> 153

<211> 14

<212> PRT

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<222> (7)..(7)

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<222> (14)..(14)

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Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe

1 5 10

<210> 154

<211> 14

<212> PRT

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(Aib), which structurally mimics Alanine

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structurally mimics Phenylalanine

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structurally mimics Methionine

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structurally mimics Arginine

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<222> (12)..(12)

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(Aib), which structurally mimics Alanine

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structurally mimics Arginine

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<222> (14)..(14)

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structurally mimics Phenylalanine

<400> 154

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1 5 10

<210> 155

<211> 14

<212> PRT

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carboxylic acid, which structurally mimics Alanine

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<400> 155

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1 5 10

<210> 156

<211> 14

<212> PRT

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> (14)..(14)

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<400> 156

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1 5 10

<210> 157

<211> 14

<212> PRT

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carboxylic acid, which structurally mimics Alanine

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structurally mimics Methionine

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structurally mimics Arginine

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structurally mimics Arginine

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<222> (14)..(14)

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structurally mimics Phenylalanine

<400> 157

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe

1 5 10

<210> 158

<211> 14

<212> PRT

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structurally mimics Arginine

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(Aib), which structurally mimics Alanine

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structurally mimics Arginine

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structurally mimics Phenylalanine

<400> 158

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1 5 10

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<211> 14

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structurally mimics Arginine

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<400> 159

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1 5 10

<210> 160

<211> 14

<212> PRT

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structurally mimics Arginine

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(Aib), which structurally mimics Alanine

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structurally mimics Arginine

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1 5 10

<210> 161

<211> 14

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(Aib), which structurally mimics Alanine

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structurally mimics Arginine

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(Aib), which structurally mimics Alanine

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structurally mimics Phenylalanine

<400> 161

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1 5 10

<210> 162

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structurally mimics Phenylalanine

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structurally mimics Phenylalanine

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structurally mimics Methionine

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structurally mimics Arginine

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(Aib), which structurally mimics Alanine

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structurally mimics Phenylalanine

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structurally mimics Phenylalanine

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structurally mimics Methionine

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structurally mimics Arginine

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(Aib), which structurally mimics Alanine

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structurally mimics Phenylalanine

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<211> 14

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carboxylic acid, which structurally mimics Alanine

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structurally mimics Phenylalanine

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structurally mimics Methionine

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structurally mimics Arginine

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carboxylic acid, which structurally mimics Alanine

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structurally mimics Phenylalanine

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structurally mimics Arginine

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(Aib), which structurally mimics Alanine

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structurally mimics Phenylalanine

<400> 166

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Ala Phe

1	5	10

<210> 167

<211> 14

<212> PRT

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<210> 168

<211> 14

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structurally mimics Phenylalanine

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structurally mimics Phenylalanine

<400> 169

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<210> 170

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<210> 171

<211> 14

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(Aib), which structurally mimics Alanine

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structurally mimics Arginine

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(Aib), which structurally mimics Alanine

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<222> (14)..(14)

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alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which
structurally mimics Phenylalanine

<400> 171
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1 5 10

<210> 172

<211> 14
<212> PRT
<213> Artificial

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(Aib), which structurally mimics Alanine

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(Aib), which structurally mimics Alanine

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(Aib), which structurally mimics Alanine

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<222> (14)..(14)

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<400> 172

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1 5 10

<210> 173

<211> 14

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<222> (14)..(14)

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alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which
structurally mimics Phenylalanine

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Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Ala Phe

1 5 10

<210> 174

<211> 14

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1 5 10

<210> 175

<211> 14

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1 5 10

<210> 176

<211> 14

<212> PRT

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structurally mimics Phenylalanine

<400> 176

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Ala Phe

1	5	10

<210> 177

<211> 14

<212> PRT

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<400> 181

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(Aib), which structurally mimics Alanine

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structurally mimics Phenylalanine

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1 5 10

<210> 183

<211> 14

<212> PRT

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prepared

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structurally mimics Phenylalanine

<220><221> MISC_FEATURE

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<223> Modified residue at this position is Norleucine (Nle), which
structurally mimics Methionine

<220><221> MISC_FEATURE

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structurally mimics Arginine

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<400> 215

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1 5 10

<210> 216

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is alpha-amino isobutyric acid
(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

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<223> Modified residue at this position is Amino cyclopentane

carboxylic acid, which structurally mimics Alanine

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structurally mimics Arginine

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1 5 10

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1 5 10

<210> 218

<211> 14

<212> PRT

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structurally mimics Arginine

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structurally mimics Phenylalanine

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1 5 10

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<211> 14

<212> PRT

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(3)..(3)

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structurally mimics Phenylalanine

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<212> PRT

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(Aib), which structurally mimics Alanine

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structurally mimics Arginine

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structurally mimics Phenylalanine

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1 5 10

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<400> 221

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1 5 10

<210> 222

<211> 14

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1 5 10

<210> 223

<211> 14

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<213> Artificial

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1 5 10

<210> 224

<211> 14

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<213> Artificial

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structurally mimics Arginine

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1 5 10

<210> 225

<211> 14

<212> PRT

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1 5 10

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<211> 14

<212> PRT

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1 5 10

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1 5 10

<210> 229

<211> 14

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<211> 14

<212> PRT

<213> Artificial

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structurally mimics Phenylalanine

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<223> Modified residue at this position is alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which structurally mimics Phenylalanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle), which structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har), which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

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alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which
structurally mimics Phenylalanine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is
alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which
structurally mimics Phenylalanine

<400> 231

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Phe Phe

1 5 10

<210> 232

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is alpha-amino isobutyric acid
(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino isobutyric acid

(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

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structurally mimics Phenylalanine

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<222> (8)..(8)

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<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har), which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (12)..(12)

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<220><221> MISC_FEATURE

<222> (13)..(13)

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<220><221> MISC_FEATURE

<222> (14)..(14)

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<400> 232

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Phe Phe

1 5 10

<210> 233

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is Amino cyclopropane carboxylic acid, which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino isobutyric acid
(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is
alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which
structurally mimics Phenylalanine

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structurally mimics Methionine

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<222> (11)..(11)

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structurally mimics Arginine

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<222> (13)..(13)

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alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which
structurally mimics Phenylalanine

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<222> (14)..(14)

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structurally mimics Phenylalanine

<400> 233

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Phe Phe

1 5 10

<210> 234

<211> 14

<212> PRT

<213> Artificial

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<222> (1)..(1)

<223> Modified residue at this position is Amino cyclopropane
carboxylic acid, which structurally mimics Alanine

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<222> (3)..(3)

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(Aib), which structurally mimics Alanine

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<222> (7)..(7)

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structurally mimics Phenylalanine

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structurally mimics Methionine

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<222> (11)..(11)

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structurally mimics Arginine

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<222> (12)..(12)

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(Aib), which structurally mimics Alanine

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alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which
structurally mimics Phenylalanine

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<222> (14)..(14)

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alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which

structurally mimics Phenylalanine

<400> 234

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Phe Phe

1 5 10

<210> 235

<211> 14

<212> PRT

<213> Artificial

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<223> Modified residue at this position is alpha-amino isobutyric acid

(Aib), which structurally mimics Alanine

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carboxylic acid, which structurally mimics Alanine

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<222> (7)..(7)

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structurally mimics Phenylalanine

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<222> (8)..(8)

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structurally mimics Methionine

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> (11)..(11)

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<222> (13)..(13)

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<222> (14)..(14)

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<400> 235

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Phe Phe

1 5 10

<210> 236

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

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<223> Modified residue at this position is alpha-amino isobutyric acid (Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

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carboxylic acid, which structurally mimics Alanine

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<222> (7)..(7)

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<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle), which structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

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<220><221> MISC_FEATURE

<222> (12)..(12)

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<220><221> MISC_FEATURE

<222> (13)..(13)

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<220><221> MISC_FEATURE

<222> (14)..(14)

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<400> 236

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Phe Phe

1 5 10

<210> 237

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

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carboxylic acid, which structurally mimics Alanine

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(3)..(3)

<223> Modified residue at this position is Amino cyclopentane
carboxylic acid, which structurally mimics Alanine

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<222> (7)..(7)

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alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which
structurally mimics Phenylalanine

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<222> (8)..(8)

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structurally mimics Methionine

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<222> (11)..(11)

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structurally mimics Arginine

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<222> (13)..(13)

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alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which
structurally mimics Phenylalanine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is
alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which
structurally mimics Phenylalanine

<400> 237

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Phe Phe

1 5 10

<210> 238

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

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carboxylic acid, which structurally mimics Alanine

<220><221> MISC_FEATURE

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carboxylic acid, which structurally mimics Alanine

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<222> (7)..(7)

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structurally mimics Phenylalanine

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structurally mimics Methionine

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<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har), which

structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (12)..(12)

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(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (13)..(13)

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alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which

structurally mimics Phenylalanine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is
alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which

structurally mimics Phenylalanine

<400> 238

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Phe Phe

1 5 10

<210> 239

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

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carboxylic acid, which structurally mimics Alanine

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(3)..(3)

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(Aib), which structurally mimics Alanine

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<222> (7)..(7)

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structurally mimics Phenylalanine

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structurally mimics Methionine

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<220><221> MISC_FEATURE

<222> (13)..(13)

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<220><221> MISC_FEATURE

<222> (14)..(14)

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<400> 239

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Phe Phe

1 5 10

<210> 240

<211> 14

<212> PRT

<213> Artificial

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<220><221> MISC_FEATURE

<222> (3)..(3)

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(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

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structurally mimics Phenylalanine

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structurally mimics Methionine

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structurally mimics Arginine

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<222> (12)..(12)

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(Aib), which structurally mimics Alanine

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<222> (13)..(13)

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alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which
structurally mimics Phenylalanine

<220><221> MISC_FEATURE

<222> (14)..(14)

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structurally mimics Phenylalanine

<400> 240

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Phe Phe

1 5 10

<210> 241

<211> 14

<212> PRT

<213> Artificial

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(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

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(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

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alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which
structurally mimics Phenylalanine

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structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har), which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is Arginine(Nitro) (Arg(NO2)) ,
which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is
alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which
structurally mimics Phenylalanine

<400> 241

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe

1

5

10

<210> 242

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

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(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

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<223> Modified residue at this position is alpha-amino isobutyric acid
(Aib), which structurally mimics Alanine

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<222> (7)..(7)

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alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which
structurally mimics Phenylalanine

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structurally mimics Methionine

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<222> (11)..(11)

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structurally mimics Arginine

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><221> MISC_FEATURE

<222> (12)..(12)

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(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is Arginine(Nitro) (Arg(NO2)) ,
which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is
alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which
structurally mimics Phenylalanine

<400> 242

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe

1 5 10

<210> 243

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

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carboxylic acid, which structurally mimics Alanine

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(Aib), which structurally mimics Alanine

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structurally mimics Phenylalanine

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structurally mimics Methionine

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structurally mimics Arginine

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which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is

alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which

structurally mimics Phenylalanine

<400> 243

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe

1 5 10

<210> 244

<211> 14

<212> PRT

<213> Artificial

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carboxylic acid, which structurally mimics Alanine

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<222> (3)..(3)

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(Aib), which structurally mimics Alanine

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<222> (7)..(7)

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alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which

structurally mimics Phenylalanine

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<220><221> MISC_FEATURE

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<222> (12)..(12)

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223> Modified residue at this position is alpha-amino isobutyric acid (Aib), which structurally mimics Alanine

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<222> (13)..(13)

<223> Modified residue at this position is Arginine(Nitro) (Arg(NO2)) , which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which structurally mimics Phenylalanine

<400> 244

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe

1 5 10

<210> 245

<211> 14

<212> PRT

<213> Artificial

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<220><221> MISC_FEATURE

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carboxylic acid, which structurally mimics Alanine

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<222> (7)..(7)

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structurally mimics Phenylalanine

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structurally mimics Methionine

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structurally mimics Arginine

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which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is
alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which
structurally mimics Phenylalanine

<400> 245

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe

1 5 10

<210> 246

<211> 14

<212> PRT

<213> Artificial

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(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

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carboxylic acid, which structurally mimics Alanine

<220><221> MISC_FEATURE

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alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which

structurally mimics Phenylalanine

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structurally mimics Methionine

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structurally mimics Arginine

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(Aib), which structurally mimics Alanine

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which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is

alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which
structurally mimics Phenylalanine

<400> 246

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe

1 5 10

<210> 247

<211> 14

<212> PRT

<213> Artificial

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carboxylic acid, which structurally mimics Alanine

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carboxylic acid, which structurally mimics Alanine

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structurally mimics Phenylalanine

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structurally mimics Methionine

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structurally mimics Arginine

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which structurally mimics Arginine

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<222> (14)..(14)

<223> Modified residue at this position is
alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which
structurally mimics Phenylalanine

<400> 247

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe

1 5 10

<210> 248

<211> 14

<212> PRT

<213> Artificial

<220><223

> This short-chain peptide was synthetically generated and
prepared

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carboxylic acid, which structurally mimics Alanine

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carboxylic acid, which structurally mimics Alanine

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structurally mimics Phenylalanine

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Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe

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<210> 249

<211

> 14

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1 5 10

<210> 250

<211> 14

<212> PRT

<213> Artificial

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structurally mimics Phenylalanine

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structurally mimics Phenylalanine

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1 5 10

<210> 251

<211

> 14

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(Aib), which structurally mimics Alanine

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structurally mimics Methionine

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structurally mimics Arginine

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which structurally mimics Arginine

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alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which

structurally mimics Phenylalanine

<400> 251

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe

1 5 10

<210> 252

<211> 14

<212> PRT

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(Aib), which structurally mimics Alanine

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1 5 10

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structurally mimics Arginine

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structurally mimics Phenylalanine

<400> 253

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1 5 10

<210> 254

<211> 14

<212> PRT

<213> Artificial

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which structurally mimics Arginine

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<222> (14)..(14)

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structurally mimics Phenylalanine

<400> 254

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1 5 10

<210> 255

<211> 14

<212> PRT

<213> Artificial

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(Aib), which structurally mimics Alanine

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structurally mimics Phenylalanine

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structurally mimics Arginine

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which structurally mimics Arginine

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<222> (14)..(14)

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structurally mimics Phenylalanine

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1 5 10

<210> 256

<211> 14

<212> PRT

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(Aib), which structurally mimics Alanine

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carboxylic acid, which structurally mimics Alanine

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1 5 10

<210> 257

<211> 14

<212> PRT

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which structurally mimics Arginine

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<222> (14)..(14)

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alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which
structurally mimics Phenylalanine

<400> 257

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1 5 10

<210> 258

<211> 14

<212> PRT

<213> Artificial

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carboxylic acid, which structurally mimics Alanine

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carboxylic acid, which structurally mimics Alanine

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structurally mimics Phenylalanine

<400> 258

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1 5 10

<210> 259

<211> 14

<212> PRT

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structurally mimics Methionine

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structurally mimics Arginine

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which structurally mimics Arginine

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structurally mimics Phenylalanine

<400> 259

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1 5 10

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<211> 14

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structurally mimics Arginine

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structurally mimics Phenylalanine

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1 5 10

<210> 261

<211> 14

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which structurally mimics Arginine

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1 5 10

<210> 262

<211> 14

<212> PRT

<213> Artificial

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alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which structurally mimics Phenylalanine

<400> 262

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1

5

10

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<211> 14

<212> PRT

<213> Artificial

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 1 5 10

<210> 264
 <211> 14
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 <213> Artificial

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 (Aib), which structurally mimics Alanine
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which structurally mimics Arginine

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structurally mimics Phenylalanine

<400> 264

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe

1 5 10

<210> 265

<211> 14

<212> PRT

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1 5 10

<210> 266

<211> 14

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prepared

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<210> 270

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Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe
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<210> 272
<211> 14
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1 5 10

<210> 274

<211> 14

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1 5 10

<210> 276

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<210> 278

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<210> 279

<211> 14

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<211> 14

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structurally mimics Phenylalanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle), which
structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har), which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (12)..(12)

<223> Modified residue at this position is alpha-amino isobutyric acid
(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is Arginine(Nitro) (Arg(NO2)) ,
which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is
alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which
structurally mimics Phenylalanine

<400> 280

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe

1 5 10

<210> 281

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is alpha-amino isobutyric acid
(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino isobutyric acid
(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is
alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which
structurally mimics Phenylalanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle), which
structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Ornithine (Orn), which structurally mimics Arginine

<220><

221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is Citrulline (Cit), which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which structurally mimics Phenylalanine

<400> 281

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe

1 5 10

<210> 282

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is alpha-amino isobutyric acid (Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino isobutyric acid (Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is

alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which
structurally mimics Phenylalanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle), which
structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Ornithine (Orn), which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (12)..(12)

<223> Modified residue at this position is alpha-amino isobutyric acid

(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is Citrulline (Cit), which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is
alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which
structurally mimics Phenylalanine

<400> 282

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe

1 5 10

<210> 283

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is Amino cyclopentane
carboxylic acid, which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino isobutyric acid
(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is
alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which
structurally mimics Phenylalanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle), which
structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Ornithine (Orn), which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223>

> Modified residue at this position is Citrulline (Cit), which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is
alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which
structurally mimics Phenylalanine

<400> 283

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe

1 5 10

<210> 284

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is Amino cyclopentane
carboxylic acid, which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino isobutyric acid
(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is
alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which
structurally mimics Phenylalanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle), which
structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Ornithine (Orn), which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (12)..(12)

<223> Modified residue at this position is alpha-amino isobutyric acid
(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is Citrulline (Cit), which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is
alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which
structurally mimics Phenylalanine

<400> 284

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe

1 5 10

<210> 285

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is alpha-amino isobutyric acid
(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino isobutyric acid
(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is
alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which
structurally mimics Phenylalanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle), which
structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Ornithine (Orn), which

structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is Citrulline (Cit), which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223>

> Modified residue at this position is
alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which
structurally mimics Phenylalanine

<400> 285

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe

1 5 10

<210> 286

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is alpha-amino isobutyric acid

(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino isobutyric acid

(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is
alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which
structurally mimics Phenylalanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle), which

structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Ornithine (Orn), which

structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (12)..(12)

<223> Modified residue at this position is alpha-amino isobutyric acid

(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is Citrulline (Cit), which

structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is

alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which

structurally mimics Phenylalanine

<400> 286

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe

1 5 10

<210> 287

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is Amino cyclopentane

carboxylic acid, which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino isobutyric acid (Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which structurally mimics Phenylalanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle), which structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Ornithine (Orn), which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is Citrulline (Cit), which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is

alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which structurally mimics Phenylalanine

<400> 287

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe

1 5 10

<210> 288

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is Amino cyclopentane
carboxylic acid, which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino isobutyric acid
(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is
alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which
structurally mimics Phenylalanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle), which
structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Ornithine (Orn), which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (12)..(12)

<223> Modified residue at this position is alpha-amino isobutyric acid
(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is Citrulline (Cit), which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is

alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which
structurally mimics Phenylalanine

<400> 288

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe

1 5 10

<210> 289

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is alpha-amino isobutyric acid

(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino isobutyric acid

(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is

alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which
structurally mimics Phenylalanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle), which

structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Ornithine (Orn), which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is Citrulline (Cit), which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which structurally mimics Phenylalanine

<400> 289

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe

1 5 10

<210> 290

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is alpha-amino isobutyric acid (Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino isobutyric acid

(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which structurally mimics Phenylalanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle), which structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Ornithine (Orn), which

structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (12)..(12)

<223> Modified residue at this position is alpha-amino isobutyric acid

(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is Citrulline (Cit), which

structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is

alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which

structurally mimics Phenylalanine

<400> 290

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe

1 5 10

<210> 291

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is Amino cyclopentane

carboxylic acid, which structurally mimics Alanine

<220><221> MISC_FEATURE

<222>

(3)..(3)

<223> Modified residue at this position is alpha-amino isobutyric acid

(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is
alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which
structurally mimics Phenylalanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle), which
structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Ornithine (Orn), which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is Citrulline (Cit), which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is
alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which
structurally mimics Phenylalanine

<400> 291

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe

1 5 10

<210> 292

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is Amino cyclopentane
carboxylic acid, which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino isobutyric acid
(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is
alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which
structurally mimics Phenylalanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle), which
structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Ornithine (Orn), which
structurally mimics Arginine

<220><

221> MISC_FEATURE

<222> (12)..(12)

<223> Modified residue at this position is alpha-amino isobutyric acid
(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is Citrulline (Cit), which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is
alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which
structurally mimics Phenylalanine

<400> 292

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe

1 5 10

<210> 293

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is alpha-amino isobutyric acid (Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino isobutyric acid

(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which structurally mimics Phenylalanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle), which structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Ornithine (Orn), which

structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is Citrulline (Cit), which

structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is
alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which
structurally mimics Phenylalanine

<400> 293

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe

1 5 10

<210> 294

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and
prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is alpha-amino isobutyric acid
(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino isobutyric acid
(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is
alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which
structurally mimics Phenylalanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle), which
structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Ornithine (Orn), which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (12)..(12)

<223> Modified residue at this position is alpha-amino isobutyric acid (Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is Citrulline (Cit), which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which structurally mimics Phenylalanine

<400> 294

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe

1 5 10

<210> 295

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is Amino cyclopentane carboxylic acid, which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino isobutyric acid

(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is
 alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which
 structurally mimics Phenylalanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle), which
 structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Ornithine (Orn), which
 structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is Citrulline (Cit), which
 structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is
 alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which
 structurally mimics Phenylalanine

<400> 295

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe

1 5 10

<210> 296

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is Amino cyclopentane
carboxylic acid, which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino isobutyric acid
(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is
alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which
structurally mimics Phenylalanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle), which
structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Ornithine (Orn), which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (12)..(12)

<223> Modified residue at this position is alpha-amino isobutyric acid
(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is Citrulline (Cit), which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is
alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which
structurally mimics Phenylalanine

<400> 296

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe

1 5 10

<210> 297

<211> 14

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(Aib), which structurally mimics Alanine

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structurally mimics Phenylalanine

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structurally mimics Phenylalanine

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structurally mimics Phenylalanine

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<210> 301

<211> 14

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structurally mimics Phenylalanine

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 1 5 10

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(Aib), which structurally mimics Alanine

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(Aib), which structurally mimics Alanine

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1

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<400> 303

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Ala Phe

1 5 10

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<210> 307

<211> 14

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<400> 307

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<210> 308

<211> 14

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1 5 10

<210> 312

<211> 14

<212> PRT

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structurally mimics Phenylalanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle), which

structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Ornithine (Orn), which

structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

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alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which
structurally mimics Phenylalanine

<220><221> MISC_FEATURE

<222> (14)..(14)

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alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which

structurally mimics Phenylalanine

<400> 313

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Phe Phe

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<210> 314

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is alpha-amino isobutyric acid
(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

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(Aib), which structurally mimics Alanine

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<222> (7)..(7)

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structurally mimics Phenylalanine

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structurally mimics Arginine

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(Aib), which structurally mimics Alanine

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structurally mimics Phenylalanine

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structurally mimics Phenylalanine

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1 5 10

<210> 315

<211> 14

<212> PRT

<213> Artificial

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carboxylic acid, which structurally mimics Alanine

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(Aib), which structurally mimics Alanine

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<222> (7)..(7)

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structurally mimics Phenylalanine

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structurally mimics Methionine

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1 5 10

<210> 316

<211> 14

<212> PRT

<213> Artificial

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(3)..(3)

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structurally mimics Arginine

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structurally mimics Phenylalanine

<400> 316

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Phe Phe

1 5 10

<210> 317

<211> 14

<212> PRT

<213> Artificial

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(Aib), which structurally mimics Alanine

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structurally mimics Methionine

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structurally mimics Arginine

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structurally mimics Phenylalanine

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<222> (14)..(14)

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structurally mimics Phenylalanine

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Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Phe Phe

1	5	10

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 <211> 14
 <212> PRT
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 (Aib), which structurally mimics Alanine
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<222> (14)..(14)

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structurally mimics Phenylalanine

<400> 318
Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Phe Phe
1 5 10

<210> 319

<211> 14

<212> PRT

<213> Artificial

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carboxylic acid, which structurally mimics Alanine

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(Aib), which structurally mimics Alanine

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structurally mimics Phenylalanine

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structurally mimics Methionine

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structurally mimics Arginine

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structurally mimics Phenylalanine

<400> 319

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Phe Phe

1 5 10

<210> 320

<211> 14

<212> PRT

<213> Artificial

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carboxylic acid, which structurally mimics Alanine

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(Aib), which structurally mimics Alanine

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structurally mimics Methionine

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structurally mimics Arginine

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(Aib), which structurally mimics Alanine

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structurally mimics Phenylalanine

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structurally mimics Phenylalanine

<400> 320

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Phe Phe

1 5 10

<210> 321

<211> 14

<212> PRT

<213> Artificial

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<400> 321

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Phe Phe

1 5 10

<210> 322

<211> 14

<212> PRT

<213> Artificial

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<223> Modified residue at this position is alpha-amino isobutyric acid

(Aib), which structurally mimics Alanine

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(Aib), which structurally mimics Alanine

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alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which

structurally mimics Phenylalanine

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structurally mimics Methionine

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structurally mimics Arginine

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(Aib), which structurally mimics Alanine

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<400> 322

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Phe Phe

1 5 10

<210> 323

<211> 14

<212> PRT

<213> Artificial

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<400> 323

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Phe Phe

1 5 10

<210> 324

<211> 14

<212> PRT

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structurally mimics Arginine

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structurally mimics Phenylalanine

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1 5 10

<210> 325

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<400> 326

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<400> 327

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Phe Phe

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<400> 328

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Phe Phe

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<223> Modified residue at this position is
alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which
structurally mimics Phenylalanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle), which
structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Ornithine (Orn), which
structurally mimics Arginine

<220><

221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is Arginine(Nitro) (Arg(NO2)) ,
which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is
alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which
structurally mimics Phenylalanine

<400> 329
Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe
1 5 10

<210> 330
<211> 14

<212> PRT
<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared
<220><221> MISC_FEATURE
<222> (1)..(1)
<223> Modified residue at this position is alpha-amino isobutyric acid
(Aib), which structurally mimics Alanine
<220><221> MISC_FEATURE
<222> (3)..(3)
<223> Modified residue at this position is alpha-amino isobutyric acid
(Aib), which structurally mimics Alanine
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alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which
structurally mimics Phenylalanine
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structurally mimics Methionine
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<222> (11)..(11)
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structurally mimics Arginine
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<222> (12)..(12)

<223> Modified residue at this position is alpha-amino isobutyric acid

(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is Arginine(Nitro) (Arg(NO2)) ,
which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is
alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which
structurally mimics Phenylalanine

<400> 330

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe

1 5 10

<210> 331

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

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<223> Modified residue at this position is Amino cyclopentane
carboxylic acid, which structurally mimics Alanine

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carboxylic acid, which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

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structurally mimics Phenylalanine

<220><221> MISC_FEATURE

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<223> Modified residue at this position is Norleucine (Nle), which structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

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<222> (13)..(13)

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> Modified residue at this position is Arginine(Nitro) (Arg(NO2)) , which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which structurally mimics Phenylalanine

<400> 331

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe

1 5 10

<210> 332

<211> 14

<212> PRT

<213> Artificial

<220><223>

This short-chain peptide was synthetically generated and prepared

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<222> (3)..(3)

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(Aib), which structurally mimics Alanine

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<222> (7)..(7)

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structurally mimics Phenylalanine

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<222> (8)..(8)

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structurally mimics Methionine

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<222> (11)..(11)

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structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (12)..(12)

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(Aib), which structurally mimics Alanine

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which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

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alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which
structurally mimics Phenylalanine

<400> 332

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe

1 5 10

<210> 333

<211

> 14

<212> PRT

<213> Artificial

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<220><221> MISC_FEATURE

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<222> (3)..(3)

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<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which structurally mimics Phenylalanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle), which structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Ornithine (Orn), which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

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<220><221> MISC_FEATURE

<222> (14)..(14)

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alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which
structurally mimics Phenylalanine

<400> 333

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe

1 5 10

<210> 334

<211> 14

<212> PRT

<213> Artificial

<220><

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(Aib), which structurally mimics Alanine

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(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

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structurally mimics Phenylalanine

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<222> (8)..(8)

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structurally mimics Methionine

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<222> (11)..(11)

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structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (12)..(12)

<223> Modified residue at this position is alpha-amino isobutyric acid (Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is Arginine(Nitro) (Arg(NO2)) , which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which structurally mimics Phenylalanine

<400> 334

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe

1 5 10

<210> 335

<211

> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is Amino cyclopentane carboxylic acid, which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

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<220><221> MISC_FEATURE

<222> (7)..(7)

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alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which structurally mimics Phenylalanine

<220><221> MISC_FEATURE

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<223> Modified residue at this position is Norleucine (Nle), which structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

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<222> (13)..(13)

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which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is

alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which structurally mimics Phenylalanine

<400> 335

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe

1 5 10

<210> 336

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

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<223> Modified residue at this position is Amino cyclopentane carboxylic acid, which structurally mimics Alanine

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<222> (3)..(3)

<223> Modified residue at this position is alpha-amino isobutyric acid

(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is
alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which
structurally mimics Phenylalanine

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<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle), which
structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

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structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (12)..(12)

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(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is Arginine(Nitro) (Arg(NO2)) ,
which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is
alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which
structurally mimics Phenylalanine

<400> 336

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe

1 5 10

<210> 337

<211> 14

<212> PRT

<213> Artificial

<220><

223> This short-chain peptide was synthetically generated and prepared

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(Aib), which structurally mimics Alanine

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(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

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structurally mimics Phenylalanine

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<222> (8)..(8)

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structurally mimics Methionine

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<222> (11)..(11)

<223> Modified residue at this position is Ornithine (Orn), which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is Arginine(Nitro) (Arg(NO2)) ,
which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is
alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which
structurally mimics Phenylalanine

<400> 337

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe

1 5 10

<210> 338

<211> 14

<212> PRT

<213> Artificial

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<223> Modified residue at this position is alpha-amino isobutyric acid

(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

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<223> Modified residue at this position is alpha-amino isobutyric acid

(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

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alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which

structurally mimics Phenylalanine

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<222> (8)..(8)

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structurally mimics Methionine

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<222> (11)..(11)

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structurally mimics Arginine

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<222> (12)..(12)

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(Aib), which structurally mimics Alanine

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which structurally mimics Arginine

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<222> (14)..(14)

<223> Modified residue at this position is

alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which

structurally mimics Phenylalanine

<400> 338

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe

1 5 10

<210> 339

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

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carboxylic acid, which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

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(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

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structurally mimics Phenylalanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle), which structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Ornithine (Orn), which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is Arginine(Nitro) (Arg(NO2)) , which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which structurally mimics Phenylalanine

<400> 339

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe

1 5 10

<210> 340

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

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carboxylic acid, which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino isobutyric acid (Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

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alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which
structurally mimics Phenylalanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle), which

structurally mimics Methionine

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<222> (11)..(11)

<223> Modified residue at this position is Ornithine (Orn), which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (12)..(12)

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(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is Arginine(Nitro) (Arg(NO2)) ,
which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is
alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which
structurally mimics Phenylalanine

<400> 340

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe

1 5 10

<210> 341

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

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(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

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(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

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alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which
structurally mimics Phenylalanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle), which
structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Ornithine (Orn), which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

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which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is

alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which
structurally mimics Phenylalanine

<400> 341

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe

1

5

10

<210> 342

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

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<220><221> MISC_FEATURE

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<222> (7)..(7)

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<222> (8)..(8)

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<220><221> MISC_FEATURE

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<220><221> MISC_FEATURE

<222> (13)..(13)

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which structurally mimics Arginine

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<222> (14)..(14)

<223> Modified residue at this position is

alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which
structurally mimics Phenylalanine

<400> 342

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe

1 5 10

<210> 343

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

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carboxylic acid, which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

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(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is

alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which
structurally mimics Phenylalanine

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<222> (8)..(8)

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structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

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<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is Arginine(Nitro) (Arg(NO2)) , which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which

structurally mimics Phenylalanine

<400> 343

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe

1 5 10

<210> 344

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

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<223> Modified residue at this position is Amino cyclopentane carboxylic acid, which structurally mimics Alanine

<220><221> MISC_FEATURE

<222>

(3)..(3)

<223> Modified residue at this position is alpha-amino isobutyric acid (Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

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<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle), which structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Ornithine (Orn), which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (12)..(12)

<223> Modified residue at this position is alpha-amino isobutyric acid (Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is Arginine(Nitro) (Arg(NO2)) , which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223>

> Modified residue at this position is alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which structurally mimics Phenylalanine

<400> 344

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe

1 5 10

<210> 345

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is alpha-amino isobutyric acid

(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

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(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

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alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which

structurally mimics Phenylalanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle), which

structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Citrulline (Cit), which

structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

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structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

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alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which

structurally mimics Phenylalanine

<400> 345

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe

1 5 10

<210> 346

<211> 14

<212> PRT

<213> Artificial

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(Aib), which structurally mimics Alanine

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(Aib), which structurally mimics Alanine

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structurally mimics Phenylalanine

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structurally mimics Methionine

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structurally mimics Arginine

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(Aib), which structurally mimics Alanine

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structurally mimics Arginine

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 1 5 10

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 <211> 14
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1 5 10

<210> 348

<211> 14

<212> PRT

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structurally mimics Phenylalanine

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(Aib), which structurally mimics Alanine

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structurally mimics Arginine

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structurally mimics Arginine

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<211> 14

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1 5 10

<210> 351

<211> 14

<212> PRT

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<400> 353

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1 5 10

<210> 354

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1 5 10

<210> 355

<211> 14

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<210> 358
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<220><221> MISC_FEATURE

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<222> (11)..(11)

<223> Modified residue at this position is Citrulline (Cit), which structurally mimics Arginine

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<222> (12)..(12)

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<222> (13)..(13)

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<400> 362

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Ala Phe

1 5 10

<210> 363

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

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alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which
structurally mimics Phenylalanine

<400> 363

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Ala Phe

1 5 10

<210> 364

<211> 14

<212> PRT

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carboxylic acid, which structurally mimics Alanine

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structurally mimics Phenylalanine

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structurally mimics Arginine

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(Aib), which structurally mimics Alanine

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structurally mimics Phenylalanine

<400> 364

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1 5 10

<210> 365

<211> 14

<212> PRT

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(Aib), which structurally mimics Alanine

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(Aib), which structurally mimics Alanine

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structurally mimics Phenylalanine

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structurally mimics Methionine

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structurally mimics Arginine

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(Aib), which structurally mimics Alanine

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structurally mimics Phenylalanine

<400> 365

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Ala Phe

1 5 10

<210> 366

<211> 14

<212> PRT

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<400> 366

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Ala Phe

1 5 10

<210> 367

<211> 14

<212> PRT

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carboxylic acid, which structurally mimics Alanine

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<222> (3)..(3)

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(Aib), which structurally mimics Alanine

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<222> (7)..(7)

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structurally mimics Phenylalanine

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structurally mimics Methionine

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<222> (11)..(11)

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structurally mimics Arginine

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(Aib), which structurally mimics Alanine

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<222> (14)..(14)

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alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which

structurally mimics Phenylalanine

<400> 367

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Ala Phe

1 5 10

<210> 368

<211> 14

<212> PRT

<213> Artificial

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carboxylic acid, which structurally mimics Alanine

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(3)..(3)

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(Aib), which structurally mimics Alanine

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structurally mimics Phenylalanine

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structurally mimics Methionine

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structurally mimics Arginine

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(Aib), which structurally mimics Alanine

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<222> (14)..(14)

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alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which
structurally mimics Phenylalanine

<400> 368

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Ala Phe

1 5 10

<210> 369

<211> 14

<212> PRT

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(Aib), which structurally mimics Alanine

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structurally mimics Phenylalanine

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structurally mimics Methionine

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structurally mimics Arginine

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(Aib), which structurally mimics Alanine

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<222> (14)..(14)

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alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which

structurally mimics Phenylalanine

<400> 369

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Ala Phe

1 5 10

<210> 370

<211> 14

<212> PRT

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(Aib), which structurally mimics Alanine

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structurally mimics Phenylalanine

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structurally mimics Methionine

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structurally mimics Arginine

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(Aib), which structurally mimics Alanine

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<222> (14)..(14)

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structurally mimics Phenylalanine

<400> 370

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Ala Phe

1 5 10

<210> 371

<211> 14

<212> PRT

<213> Artificial

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carboxylic acid, which structurally mimics Alanine

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structurally mimics Phenylalanine

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structurally mimics Methionine

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structurally mimics Arginine

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(Aib), which structurally mimics Alanine

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<222> (14)..(14)

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structurally mimics Phenylalanine

<400> 371

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Ala Phe

1 5 10

<210> 372

<211> 14

<212> PRT

<213> Artificial

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carboxylic acid, which structurally mimics Alanine

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(Aib), which structurally mimics Alanine

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structurally mimics Phenylalanine

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structurally mimics Arginine

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structurally mimics Phenylalanine

<400> 372

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Ala Phe

1 5 10

<210> 373

<211> 14

<212> PRT

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structurally mimics Arginine

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structurally mimics Phenylalanine

<400> 373

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Ala Phe

1 5 10

<210> 374

<211> 14

<212> PRT

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(Aib), which structurally mimics Alanine

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structurally mimics Arginine

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structurally mimics Phenylalanine

<400> 374

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1 5 10

<210> 375

<211> 14

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carboxylic acid, which structurally mimics Alanine

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1

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10

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<211> 14

<212> PRT

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carboxylic acid, which structurally mimics Alanine

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(Aib), which structurally mimics Alanine

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(Aib), which structurally mimics Alanine

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structurally mimics Phenylalanine

<400> 376

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1 5 10

<210> 377

<211> 14

<212> PRT

<213> Artificial

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structurally mimics Phenylalanine

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structurally mimics Methionine

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<400> 377

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1 5 10

<210> 378

<211> 14

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structurally mimics Phenylalanine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is
alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which

structurally mimics Phenylalanine

<400> 378

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Phe Phe

1 5 10

<210> 379

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is Amino cyclopentane
carboxylic acid, which structurally mimics Alanine

<220><221> MISC_FEATURE

<222>

(3)..(3)

<223> Modified residue at this position is alpha-amino isobutyric acid
(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

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structurally mimics Phenylalanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle), which
structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Citrulline (Cit), which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

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alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which
structurally mimics Phenylalanine

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<222> (14)..(14)

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alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which
structurally mimics Phenylalanine

<400> 379

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Phe Phe

1 5 10

<210> 380

<211> 14

<212> PRT

<213> Artificial

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<220><221> MISC_FEATURE

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carboxylic acid, which structurally mimics Alanine

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(Aib), which structurally mimics Alanine

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<222> (7)..(7)

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structurally mimics Phenylalanine

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structurally mimics Methionine

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<222> (11)..(11)

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structurally mimics Arginine

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(Aib), which structurally mimics Alanine

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structurally mimics Phenylalanine

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<222> (14)..(14)

<223> Modified residue at this position is
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structurally mimics Phenylalanine

<400> 380

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Phe Phe

1 5 10

<210> 381

<211> 14

<212> PRT

<213> Artificial

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(Aib), which structurally mimics Alanine

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carboxylic acid, which structurally mimics Alanine

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structurally mimics Methionine

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<400> 381

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Phe Phe

1 5 10

<210> 382

<211> 14

<212> PRT

<213> Artificial

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<220><221> MISC_FEATURE

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<223> Modified residue at this position is alpha-amino isobutyric acid

(Aib), which structurally mimics Alanine

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<222> (7)..(7)

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alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which
structurally mimics Phenylalanine

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structurally mimics Methionine

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structurally mimics Arginine

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<222> (12)..(12)

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(Aib), which structurally mimics Alanine

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structurally mimics Phenylalanine

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structurally mimics Phenylalanine

<400> 382

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Phe Phe

1 5 10

<210> 383

<211> 14

<212> PRT

<213> Artificial

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carboxylic acid, which structurally mimics Alanine

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(3)..(3)

<223> Modified residue at this position is alpha-amino isobutyric acid
(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

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alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which
structurally mimics Phenylalanine

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<222> (8)..(8)

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structurally mimics Methionine

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<222> (11)..(11)

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structurally mimics Arginine

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<222> (13)..(13)

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structurally mimics Phenylalanine

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<222> (14)..(14)

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structurally mimics Phenylalanine

<400> 383

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Phe Phe

1 5 10

<210> 384

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and
prepared

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carboxylic acid, which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino isobutyric acid

(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

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structurally mimics Phenylalanine

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<222> (8)..(8)

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structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

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structurally mimics Arginine

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(Aib), which structurally mimics Alanine

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structurally mimics Phenylalanine

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<222> (14)..(14)

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structurally mimics Phenylalanine

<400> 384

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Phe Phe

1 5 10

<210> 385

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and
prepared

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(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

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alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which
structurally mimics Phenylalanine

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<220><221> MISC_FEATURE

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<220><221> MISC_FEATURE

<222> (14)..(14)

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<400> 385

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Phe Phe

1 5 10

<210> 386

<211> 14

<212> PRT

<213> Artificial

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(Aib), which structurally mimics Alanine

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<222> (7)..(7)

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structurally mimics Phenylalanine

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structurally mimics Methionine

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structurally mimics Arginine

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<222> (12)..(12)

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(Aib), which structurally mimics Alanine

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<222> (13)..(13)

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structurally mimics Phenylalanine

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structurally mimics Phenylalanine

<400> 386

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Phe Phe

1 5 10

<210> 387

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

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<223> Modified residue at this position is Amino cyclopentane
carboxylic acid, which structurally mimics Alanine

<220><221> MISC_FEATURE

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(3)..(3)

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(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

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alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which
structurally mimics Phenylalanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle), which
structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Citrulline (Cit), which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

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structurally mimics Phenylalanine

<220><221> MISC_FEATURE

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alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which

structurally mimics Phenylalanine

<400> 387

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Phe Phe

1 5 10

<210> 388

<211> 14

<212> PRT

<213> Artificial

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(Aib), which structurally mimics Alanine

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structurally mimics Arginine

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(Aib), which structurally mimics Alanine

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structurally mimics Phenylalanine

<220><221> MISC_FEATURE

<222> (14)..(14)

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structurally mimics Phenylalanine

<400> 388

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Phe Phe

1 5 10

<210> 389

<211> 14

<212> PRT

<213> Artificial

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<223> Modified residue at this position is alpha-amino isobutyric acid
(Aib), which structurally mimics Alanine

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structurally mimics Phenylalanine

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structurally mimics Methionine

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<223> Modified residue at this position is Citrulline (Cit), which
structurally mimics Arginine

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structurally mimics Phenylalanine

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<222> (14)..(14)

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alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which
structurally mimics Phenylalanine

<400> 389

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Phe Phe

1 5 10

<210> 390

<211> 14

<212> PRT

<213> Artificial

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(Aib), which structurally mimics Alanine

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(Aib), which structurally mimics Alanine

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structurally mimics Phenylalanine

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structurally mimics Methionine

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structurally mimics Arginine

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<222> (12)..(12)

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(Aib), which structurally mimics Alanine

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structurally mimics Phenylalanine

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<222> (14)..(14)

<223> Modified residue at this position is

alpha-methyl-2,6-F-phenylalanine (alpha-Me-2,6-F-Phe), which

structurally mimics Phenylalanine

<400> 390

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Phe Phe

1

5

10

<210> 391

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

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carboxylic acid, which structurally mimics Alanine

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(3)..(3)

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structurally mimics Phenylalanine

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structurally mimics Methionine

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structurally mimics Arginine

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structurally mimics Phenylalanine

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<222> (14)..(14)

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<400> 391

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1 5 10

<210> 392

<211> 14

<212> PRT

<213> Artificial

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(Aib), which structurally mimics Alanine

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<222> (11)..(11)

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structurally mimics Arginine

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(Aib), which structurally mimics Alanine

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structurally mimics Phenylalanine

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structurally mimics Phenylalanine

<400> 392

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Phe Phe

1 5 10

<210> 393

<211> 14

<212> PRT

<213> Artificial

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(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

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(Aib), which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

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alpha-methyl-2F-phenylalanine (alpha-Me-2F-Phe), which
structurally mimics Phenylalanine

<220><221> MISC_FEATURE

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structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Citrulline (Cit), which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

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which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

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structurally mimics Phenylalanine

<400> 393

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1 5 10

<210> 394

<211> 14

<212> PRT

<213> Artificial

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1 5 10

<210> 395

<211> 14

<212> PRT

<213> Artificial

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1 5 10

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structurally mimics Methionine.

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structurally mimics Arginine.

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which structurally mimics Phenylalanine.

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which structurally mimics Phenylalanine.

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<211> 14

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acid (Aib) which structurally mimics Alanine.

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which structurally mimics Phenylalanine.

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structurally mimics Arginine.

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which structurally mimics Phenylalanine.

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which structurally mimics Phenylalanine.

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acid (Aib) which structurally mimics Alanine.

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(13)..(13)

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which structurally mimics Phenylalanine.

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1 5 10

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<211> 14

<212> PRT

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which structurally mimics Phenylalanine.

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structurally mimics Methionine.

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structurally mimics Arginine.

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1 5 10

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1 5 10

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 which structurally mimics Phenylalanine.

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 which structurally mimics Phenylalanine.

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1 5 10

<210> 458
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 acid (Aib) which structurally mimics Alanine.
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which structurally mimics Phenylalanine.

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1	5	10

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structurally mimics Arginine.

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1 5 10

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<210> 558

<211> 14

<212> PRT

<213> Artificial

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acid (Aib) which structurally mimics Alanine.

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acid (Aib) which structurally mimics Alanine.

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which structurally mimics Phenylalanine.

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structurally mimics Methionine.

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acid (Aib) which structurally mimics Alanine.

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carboxylic acid which structurally mimics Alanine.

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which structurally mimics Phenylalanine.

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1 5 10

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which structurally mimics Phenylalanine.

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1 5 10

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<400> 575

Ala Val Ala Glu Ile Gln Phe Met His Gln Ala Ala Phe Phe

1 5 10

<210> 576

<211> 14

<212> PRT

<213> Artificial

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carboxylic acid which structurally mimics Alanine.

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1 5 10

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1 5 10

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1 5 10

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1 5 10

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acid (Aib) which structurally mimics Alanine.

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structurally mimics with Arginine.

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1 5 10 15

<210> 615

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structurally mimics Methionine.

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structurally mimics with Arginine.

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acid which structurally mimics with phenylalanine.

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structurally mimics Methionine.

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<222> (14)..(14)

<223> Modified residue at this position is

2'-Ethyl-4'-methoxy-biphenylalanine which structurally mimics
with Phenylalanine.

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-Amino-5-phenylpentanoic
acid which structurally mimics with phenylalanine.

<400> 634

Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Lys Phe Phe

1 5 10 15

<210> 635

<211> 15

<212> PRT

<213> Artificial

<220><223> This short chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position mimics -alpha amino-isobutyric
acid (Aib) which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position mimics -alpha amino-isobutyric
acid (Aib) which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is -Homo arginine which
structurally mimics Arginine.

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is alkylated lysine
K(CO(CH₂)₆-CH₃) which structurally mimics with Lysine.

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is

2'-Ethyl-4'-methoxy-biphenylalanine which structurally mimics
with Phenylalanine.

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-Amino-5-phenylpentanoic
acid which structurally mimics with phenylalanine.

<400> 635

Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Lys Phe Phe

1 5 10 15

<210> 636

<211> 15

<212> PRT

<213> Artificial

<220><223> This short chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position mimics -alpha amino-isobutyric
acid (Aib) which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position mimics -alpha amino-isobutyric

acid (Aib) which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is -Norleucine which
structurally mimics Methionine.

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is -Homo arginine which
structurally mimics Arginine.

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is alkylated lysine
K(CO(CH₂)₆-CH₃) which structurally mimics with Lysine.

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is
2'-Ethyl-4'-methoxy-biphenylalanine which structurally mimics
with Phenylalanine.

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-Amino-5-phenylpentanoic
acid which structurally mimics with phenylalanine.

<400> 636

Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Lys Phe Phe

1 5 10 15

<210

> 637

<211> 15

<212> PRT

<213> Artificial

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<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is -amino cyclo-pentane
carboxylic acid which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is -amino cyclo-pentane
carboxylic acid which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is -Norleucine which

structurally mimics Methionine.

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is -Homo arginine which structurally mimics Arginine.

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is alkylated lysine K(CO(CH₂)₆-CH₃) which structurally mimics with Lysine.

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is

2'-Ethyl-4'-methoxy-biphenylalanine which structurally mimics with Phenylalanine.

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-Amino-5-phenylpentanoic acid which structurally mimics with phenylalanine.

<400> 637

Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Lys Phe Phe

1 5 10 15

<210> 638

<211> 15

<212> PRT

<213> Artificial

<220><223> This short chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is -amino cyclo-pentane carboxylic acid which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is -amino cyclo-pentane

carboxylic acid which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is homoarginine(N02) which structurally mimics with Arginine.

<220><221>

> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position N-methyl Lysine which structurally mimics with Lysine.

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is 2'-Ethyl-4'-methoxy-biphenylalanine which structurally mimics with Phenylalanine.

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-Amino-5-phenylpentanoic acid which structurally mimics with phenylalanine.

<400> 638

Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Lys Phe Phe

1	5	10	15

<210> 639

<211> 15

<212> PRT

<213> Artificial

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<220><221> MISC_FEATURE

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<223> Modified residue at this position is -amino cyclo-pentane carboxylic acid which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is -amino cyclo-pentane

carboxylic acid which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is -Norleucine which structurally mimics Methionine.

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is homoarginine(N02) which structurally mimics with Arginine.

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position N-methyl Lysine which structurally mimics with Lysine.

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is 2'-Ethyl-4'-methoxy-biphenylalanine which structurally mimics with Phenylalanine.

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-Amino-5-phenylpentanoic acid which structurally mimics with phenylalanine.

<400> 639

Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Lys Phe Phe

1 5 10 15

<210

> 640

<211> 15

<212> PRT

<213> Artificial

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<220><221> MISC_FEATURE

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<223> Modified residue at this position is amino cyclo-pentane carboxylic acid which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is amino cyclo-pentane carboxylic acid which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is -Norleucine which structurally mimics Methionine.

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is -Homo arginine which structurally mimics Arginine.

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is alkylated lysine K(CO(CH₂)₆-CH₃) which structurally mimics with Lysine.

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is

2'-Ethyl-4'-methoxy-biphenylalanine which structurally mimics with Phenylalanine.

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-Amino-5-phenylpentanoic acid which structurally mimics with phenylalanine.

<400> 640

Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Lys Phe Phe

1 5 10 15

<210> 641

<211> 15

<212> PRT

<213> Artificial

<220><223> This short chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is amino cyclo-pentane
carboxylic acid which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is amino cyclo-pentane
carboxylic acid which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is N-methyl Norleucine which
structurally mimics with methionine.

<220><221>

> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is -Homo arginine which
structurally mimics Arginine.

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is alkylated lysine
K(CO(CH₂)₆-CH₃) which structurally mimics with Lysine.

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is
2'-Ethyl-4'-methoxy-biphenylalanine which structurally mimics
with Phenylalanine.

<220>

><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-Amino-5-phenylpentanoic
acid which structurally mimics with phenylalanine.

<400> 641

Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Lys Phe Phe

1 5 10 15

<210> 642

<211> 15

<212> PRT

<213> Artificial

<220><223> This short chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

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<223> Modified residue at this position is -amino cyclo-pentane

carboxylic acid which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is -amino cyclo-pentane

carboxylic acid which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is N-methyl methionine which

structurally mimics with methionine.

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is homoarginine(N02) which

structurally mimics with Arginine.

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position N-methyl Lysine which

structurally mimics with Lysine.

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is

2'-Ethyl-4'-methoxy-biphenylalanine which structurally mimics
with Phenylalanine.

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-Amino-5-phenylpentanoic acid which structurally mimics with phenylalanine.

<400> 642

Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Lys Phe Phe

1 5 10 15

<210> 643

<211> 15

<212> PRT

<213> Artificial

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<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is -amino cyclo-pentane carboxylic acid which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is -amino cyclo-pentane

carboxylic acid which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is N-methyl Norleucine which structurally mimics with methionine.

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is homoarginine(NO2) which structurally mimics with Arginine.

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position N-methyl Lysine which structurally mimics with Lysine.

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is

2'-Ethyl-4'-methoxy-biphenylalanine which structurally mimics
with Phenylalanine.

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-Amino-5-phenylpentanoic
acid which structurally mimics with phenylalanine.

<400> 643

Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Lys Phe Phe

1 5 10 15

<210

> 644

<211> 15

<212> PRT

<213> Artificial

<220><223> This short chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is amino cyclo-pentane
carboxylic acid which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is amino cyclo-pentane
carboxylic acid which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is N-methyl methionine which
structurally mimics with methionine.

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is homoarginine(NO2) which
structurally mimics with Arginine.

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position N-methyl Lysine which structurally mimics with Lysine.

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is

2'-Ethyl-4'-methoxy-biphenylalanine which structurally mimics with Phenylalanine.

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-Amino-5-phenylpentanoic acid which structurally mimics with phenylalanine.

<400> 644

Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Lys Phe Phe

1 5 10 15

<210> 645

<211> 15

<212> PRT

<213> Artificial

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<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is amino cyclo-pentane carboxylic acid which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is amino cyclo-pentane carboxylic acid which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is N-methyl Norleucine which structurally mimics with methionine.

<220><221

> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is homoarginine(N02) which structurally mimics with Arginine.

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position N-methyl Lysine which structurally mimics with Lysine.

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is 2'-Ethyl-4'-methoxy-biphenylalanine which structurally mimics with Phenylalanine.

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-Amino-5-phenylpentanoic acid which structurally mimics with phenylalanine.

<400> 645

Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Lys Phe Phe

1 5 10 15

<210> 646

<211> 14

<212> PRT

<213> Artificial

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<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position mimics -alpha amino-isobutyric acid (Aib) which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position mimics -alpha amino-isobutyric

acid (Aib) which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is -alpha methyl phenylalanine which structurally mimics Phenylalanine.

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is -Norleucine which structurally mimics Methionine.

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is -Homo Citrulline which structurally mimics Arginine.

<220><221> MISC_FEATURE

<222> (12)..(12)

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<220><221> MISC_FEATURE

<222> (13)..(13)

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<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is -alpha methyl phenylalanine which structurally mimics Phenylalanine.

<400> 646

Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Lys Phe

1 5 10

<210> 647

<211> 14

<212> PRT

<213> Artificial

<220><223> This short chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

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<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position mimics -alpha amino-isobutyric acid (Aib) which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (8)..(8)

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<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is -Homo arginine which structurally mimics Arginine.

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is 2'-Ethyl-4'-methoxy-biphenylalanine which structurally mimics with Phenylalanine.

<400> 647

Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Lys Phe

1 5 10

<210> 648

<211> 14

<212> PRT

<213> Artificial

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<220><221> MISC_FEATURE

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carboxylic acid which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position mimics -alpha amino-isobutyric acid (Aib) which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is -Homo arginine which structurally mimics Arginine.

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is 2'-Ethyl-4'-methoxy-biphenylalanine which structurally mimics

with Phenylalanine.

<400> 648

Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Lys Phe

1 5 10

<210> 649

<211> 14

<212> PRT

<213> Artificial

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<223> Modified residue at this position is -amino cyclo-pentane carboxylic acid which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position mimics -alpha amino-isobutyric acid (Aib) which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is -Norleucine which

structurally mimics Methionine.

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is -Homo arginine which structurally mimics Arginine.

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is

2'-Ethyl-4'-methoxy-biphenylalanine which structurally mimics with Phenylalanine.

<400> 649

Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Lys Phe

1 5 10

<210> 650

<211> 14

<212> PRT

<213> Artificial

<220><223> This short chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is amino cyclo-pentane carboxylic acid which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position mimics -alpha amino-isobutyric acid (Aib) which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is -Homo arginine which structurally mimics Arginine.

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is -alpha methyl phenylalanine

which structurally mimics Phenylalanine.

<400> 650

Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Lys Phe

1 5 10

<210> 651

<211> 14

<212> PRT

<213> Artificial

<220><223> This sequence was synthetically synthesized and prepared

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<223> Modified residue at this position is amino cyclo-propane
carboxylic acid which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is -alpha amino-isobutyric acid
(Aib) which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is -Norleucine which
structurally mimics Methionine.

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine which
structurally mimics with Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is
2'-Ethyl-4'-methoxy-biphenylalanine which structurally mimics
with Phenylalanine.

<400> 651

Ala Val Ala Glu Ile Gln Leu Leu His Gln Arg Ala Lys Phe

1 5 10

<210> 652

<211> 14

<212> PRT

<213> Artificial

<220><223> This sequence was synthetically synthesised and prepared

<220><221> MISC_FEATURE

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<223> Modified residue at this position is -alpha amino-isobutyric acid
(Aib) which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is amino cyclo-propane
carboxylic acid which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine which
structurally mimics with Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is
2'-Ethyl-4'-methoxy-biphenylalanine which structurally mimics
with Phenylalanine.

<400> 652

Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Lys Phe

1 5 10

<210> 653

<211> 14

<212> PRT

<213> Artificial

<220><223> This sequence was synthetically synthesised and prepared

<220><221> MISC_FEATURE

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<223> Modified residue at this position is -alpha amino-isobutyric acid
(Aib) which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is amino cyclo-propane
carboxylic acid which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is -Norleucine which

structurally mimics Methionine.

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine which
structurally mimics with Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is
2'-Ethyl-4'-methoxy-biphenylalanine which structurally mimics
with Phenylalanine.

<400> 653

Ala Val Ala Glu Ile Gln Leu Leu His Gln Arg Ala Lys Phe

1 5 10

<210> 654

<211> 14

<212> PRT

<213> Artificial

<220><223> This sequence was synthetically synthesized and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is amino cyclo-propane
carboxylic acid which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is amino cyclo-propane
carboxylic acid which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine which
structurally mimics with Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is
2'-Ethyl-4'-methoxy-biphenylalanine which structurally mimics
with Phenylalanine.

<400> 654

Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Lys Phe

1 5 10

<210> 655

<211> 14

<212> PRT

<213> Artificial

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carboxylic acid which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is amino cyclo-propane
carboxylic acid which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is -Norleucine which
structurally mimics Methionine.

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine which structurally mimics with Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is 2'-Ethyl-4'-methoxy-biphenylalanine which structurally mimics with Phenylalanine.

<400> 655

Ala Val Ala Glu Ile Gln Leu Leu His Gln Arg Ala Lys Phe

1	5	10

<210> 656

<211> 14

<212> PRT

<213> Artificial

<220

><223> This sequence was synthetically synthesized and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is amino cyclo-pentane carboxylic acid which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is amino cyclo-propane carboxylic acid which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine which structurally mimics with Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is 2'-Ethyl-4'-methoxy-biphenylalanine which structurally mimics with Phenylalanine.

<400> 656

Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Lys Phe

1 5 10

<210> 657

<211> 14

<212> PRT

<213> Artificial

<220><223> This sequence was synthetically synthesized and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is amino cyclo-pentane
carboxylic acid which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is amino cyclo-propane
carboxylic acid which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is -Norleucine which
structurally mimics Methionine.

<220><221> MISC_FEATURE

<222> (11)..(11)

<

223> Modified residue at this position is Homoarginine which
structurally mimics with Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is
2'-Ethyl-4'-methoxy-biphenylalanine which structurally mimics
with Phenylalanine.

<400> 657

Ala Val Ala Glu Ile Gln Leu Leu His Gln Arg Ala Lys Phe

1 5 10

<210> 658

<211> 14

<212> PRT

<213> Artificial

<220><223> This sequence was synthetically synthesized and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is -alpha amino-isobutyric acid
(Aib) which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is -alpha amino-isobutyric acid
(Aib) which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (NO2) which
structurally mimics with Arginine

<220><221>

MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is
2'-Ethyl-4'-methoxy-biphenylalanine which structurally mimics
with Phenylalanine.

<400> 658

Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Lys Phe

1 5 10

<210> 659

<211> 14

<212> PRT

<213> Artificial

<220><223> This sequence was synthetically synthesized and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is -alpha amino-isobutyric acid

(Aib) which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is -alpha amino-isobutyric acid

(Aib) which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is -Norleucine which structurally mimics Methionine.

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (NO2) which structurally mimics with Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is 2'-Ethyl-4'-methoxy-biphenylalanine which structurally mimics with Phenylalanine.

<400> 659

Ala Val Ala Glu Ile Gln Leu Leu His Gln Arg Ala Lys Phe

1 5 10

<210> 660

<211> 14

<212> PRT

<213> Artificial

<220><223> This sequence was synthetically synthesisized and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is -alpha amino-isobutyric acid

(Aib) which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is -alpha amino-isobutyric acid

(Aib) which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (NO2) which structurally mimics with Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is Lysine Biotin which structurally mimics with Lysine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is 2'-Ethyl-4'-methoxy-biphenylalanine which structurally mimics with Phenylalanine.

<400> 660

Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Lys Phe

1 5 10

<210> 661

<211> 14

<212> PRT

<213> Artificial

<220><223> This sequence was synthetically synthesized and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is -alpha amino-isobutyric acid

(Aib) which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is -alpha amino-isobutyric acid

(Aib) which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is -Norleucine which

structurally mimics Methionine.

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (NO2) which structurally mimics with Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is Lysine Biotin which structurally mimics with Lysine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is 2'-Ethyl-4'-methoxy-biphenylalanine which structurally mimics with Phenylalanine.

<400> 661

Ala Val Ala Glu Ile Gln Leu Leu His Gln Arg Ala Lys Phe

1 5 10

<210> 662

<211> 14

<212> PRT

<213> Artificial

<220><223> This sequence was synthetically synthesized and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is -alpha amino-isobutyric acid (Aib) which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is -alpha amino-isobutyric acid (Aib) which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine which

structurally mimics with Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is Lysine Biotin which

structurally mimics with Lysine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is

2'-Ethyl-4'-methoxy-biphenylalanine which structurally mimics
with Phenylalanine.

<400> 662

Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Lys Phe

1 5 10

<210> 663

<211> 14

<212> PRT

<213> Artificial

<220><223> This sequence was synthetically synthesized and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is -alpha amino-isobutyric acid

(Aib) which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is -alpha amino-isobutyric acid

(Aib) which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is -Norleucine which

structurally mimics Methionine.

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine which structurally mimics with Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is Lysine Biotin which structurally mimics with Lysine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is 2'-Ethyl-4'-methoxy-biphenylalanine which structurally mimics with Phenylalanine.

<400> 663

Ala Val Ala Glu Ile Gln Leu Leu His Gln Arg Ala Lys Phe

1 5 10

<210> 664

<211> 14

<212> PRT

<213> Artificial

<220><223> This sequence was synthetically synthesized and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is -alpha amino-isobutyric acid (Aib) which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is -alpha amino-isobutyric acid (Aib) which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine(N02) which structurally mimics with Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is alkylated lysine
K(CO(CH₂)₆-CH₃) which structurally mimics with Lysine.

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is
2'-Ethyl-4'-methoxy-biphenylalanine which structurally mimics

with Phenylalanine.

<400> 664

Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Lys Phe

1 5 10

<210> 665

<211> 14

<212> PRT

<213> Artificial

<220><223> This sequence was synthetically synthesized and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is -alpha amino-isobutyric acid
(Aib) which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is -alpha amino-isobutyric acid

(Aib) which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is -Norleucine which
structurally mimics Methionine.

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine(NO₂) which
structurally mimics with Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is alkylated lysine
K(CO(CH₂)₆-CH₃) which structurally mimics with Lysine.

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is
2'-Ethyl-4'-methoxy-biphenylalanine which structurally mimics
with Phenylalanine.

<400> 665

Ala Val Ala Glu Ile Gln Leu Leu His Gln Arg Ala Lys Phe

1 5 10

<210> 666

<211> 14

<212> PRT

<213> Artificial

<220><223> This sequence was synthetically synthesized and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is -alpha amino-isobutyric acid

(Aib) which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is -alpha amino-isobutyric acid

(Aib) which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine(NO₂) which
structurally mimics with Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is alkylated lysine
K(CO(CH₂)₆-CH₃) which structurally mimics with Lysine.

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is
2'-Ethyl-4'-methoxy-biphenylalanine which structurally mimics
with Phenylalanine.

<400> 666

Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Lys Phe

1 5 10

<210> 667

<211> 14

<212> PRT

<213> Artificial

<220><223> This sequence was synthetically synthesized and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is -alpha amino-isobutyric acid

(Aib) which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is -alpha amino-isobutyric acid

(Aib) which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is -Norleucine which
structurally mimics Methionine.

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine which
structurally mimics with Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is alkylated lysine
K(CO(CH₂)₆-CH₃) which structurally mimics with Lysine.

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is
2'-Ethyl-4'-methoxy-biphenylalanine which structurally mimics
with Phenylalanine.

<400> 667

Ala Val Ala Glu Ile Gln Leu Leu His Gln Arg Ala Lys Phe

1 5 10

<210> 668

<211

> 14

<212> PRT

<213> Artificial

<220><223> This sequence was synthetically synthesized and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is -alpha amino-isobutyric acid
(Aib) which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is -alpha amino-isobutyric acid
(Aib) which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine(NO2) which

structurally mimics with Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is alkylated lysine
K(CO(CH2)6-CH3) which structurally mimics with Lysine.

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is
2'-Ethyl-4'-methoxy-biphenylalanine which structurally mimics

with Phenylalanine.

<400> 668

Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Lys Phe

1 5 10

<210> 669

<211> 14

<212> PRT

<213> Artificial

<220><223> This sequence was synthetically synthesized and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is -alpha amino-isobutyric acid
(Aib) which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is -alpha amino-isobutyric acid
(Aib) which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is -Norleucine which
structurally mimics Methionine.

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine(NO2) which
structurally mimics with Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is alkylated lysine
K(CO(CH₂)₆-CH₃) which structurally mimics with Lysine.

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is

2'-Ethyl-4'-methoxy-biphenylalanine which structurally mimics
with Phenylalanine.

<400> 669

Ala Val Ala Glu Ile Gln Leu Leu His Gln Arg Ala Lys Phe

1 5 10

<210> 670

<211> 14

<212> PRT

<213> Artificial

<220><223> This sequence was synthetically synthesisized and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is -alpha amino-isobutyric acid
(Aib) which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is -alpha amino-isobutyric acid
(Aib) which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine which
structurally mimics with Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is alkylated lysine
K(CO(CH₂)₆-CH₃) which structurally mimics with Lysine.

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is
2'-Ethyl-4'-methoxy-biphenylalanine which structurally mimics
with Phenylalanine.

<400> 670

Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Lys Phe

1 5 10

<210> 671

<211> 14

<212> PRT

<213> Artificial

<220><223> This sequence was synthetically synthesized and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is -alpha amino-isobutyric acid

(Aib) which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is -alpha amino-isobutyric acid

(Aib) which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is -Norleucine which

structurally mimics Methionine.

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine which

structurally mimics with Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is alkylated lysine

K(CO(CH₂)₆-CH₃) which structurally mimics with Lysine.

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is

2'-Ethyl-4'-methoxy-biphenylalanine which structurally mimics

with Phenylalanine.

<400> 671

Ala Val Ala Glu Ile Gln Leu Leu His Gln Arg Ala Lys Phe

1 5 10

<210> 672

<211

> 14

<212> PRT

<213> Artificial

<220><223> This sequence was synthetically synthesised and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is amino cyclo-pentane
carboxylic acid which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is amino cyclo-propane
carboxylic acid which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine which

structurally mimics with Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is alkylated lysine
K(CO(CH₂)₆-CH₃) which structurally mimics with Lysine.

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is
2'-Ethyl-4'-methoxy-biphenylalanine which structurally mimics
with Phenylalanine.

<400> 672

Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Lys Phe

1 5 10

<210> 673

<211> 14

<212> PRT

<213> Artificial

<220><223> This sequence was synthetically synthesized and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is amino cyclo-pentane
carboxylic acid which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is amino cyclo-propane
carboxylic acid which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is -Norleucine which
structurally mimics Methionine.

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine which
structurally mimics with Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is alkylated lysine
K(CO(CH₂)₆-CH₃) which structurally mimics with Lysine.

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is

2'-Ethyl-4'-methoxy-biphenylalanine which structurally mimics
with Phenylalanine.

<400> 673

Ala Val Ala Glu Ile Gln Leu Leu His Gln Arg Ala Lys Phe

1 5 10

<210> 674

<211> 14

<212> PRT

<213> Artificial

<220><223> This sequence was synthetically synthesized and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is amino cyclo-pentane
carboxylic acid which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is amino cyclo-propane
carboxylic acid which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine(NO2) which
structurally mimics with Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position N-methyl Lysine which
structurally mimics with Lysine.

<220><221> MISC_FEATURE

<

222> (14)..(14)

<223> Modified residue at this position is
2'-Ethyl-4'-methoxy-biphenylalanine which structurally mimics
with Phenylalanine.

<400> 674

Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Lys Phe

1 5 10

<210> 675

<211> 14

<212> PRT

<213> Artificial

<220><223> This sequence was synthetically synthesized and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is amino cyclo-pentane

carboxylic acid which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is amino cyclo-propane

carboxylic acid which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is -Norleucine which

structurally mimics Methionine.

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine(NO2) which

structurally mimics with Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position N-methyl Lysine which

structurally mimics with Lysine.

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is

2'-Ethyl-4'-methoxy-biphenylalanine which structurally mimics
with Phenylalanine.

<400> 675

Ala Val Ala Glu Ile Gln Leu Leu His Gln Arg Ala Lys Phe

1 5 10

<210> 676

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is alpha-amino isobutyric acid
(Aib), which structurally mimics alanine.

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino isobutyric acid
(Aib), which structurally mimics alanine.

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is N-methyl methionine ((NMe)M)

which structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is alkylated lysine
(K(-CO-(CH₂)₈-CH₃)) which structurally mimics Lysine.

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is
2'-Ethyl-4'-methoxy-biphenylalanine (Bip(OMe)) which structurally
mimics Phenyl alanine.

<400> 676

Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Lys Phe

1 5 10

<210> 677

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is alpha-amino-isobutyric acid
(Aib) which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino-isobutyric acid
(Aib) which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is N-methyl Norleucine
((NMe)Nle) which structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is alkylated lysine
(K(-CO-(CH₂)₈-CH₃)) which structurally mimics Lysine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is
2'-Ethyl-4'-methoxy-biphenylalanine (Bip(OMe)) which structurally
mimics Phenyl alanine

<400> 677

Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Lys Phe

1 5 10

<210> 678

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is 1-amino cyclopropane
carboxylic acid (AC3C) which structurally mimics alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino-isobutyric acid

(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is N-methyl methionine ((NMe)M)
which structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har) which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is Alkylated lysine
(K(-CO-(CH₂)₈-CH₃)) which structurally mimics Lysine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is
2'-Ethyl-4'-methoxy-biphenylalanine (Bip(OMe)) which structurally
mimics Phenyl alanine

<400> 678

Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Lys Phe

1 5 10

<210> 679

<211> 14

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is 1-amino cyclopropane

carboxylic acid (AC3C) which structurally mimics alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino-isobutyric acid
(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is N-methyl Norleucine
((NMe)Nle) which structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har) which

structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is Alkylated lysine
(K(-CO-(CH₂)₈-CH₃)) which structurally mimics Lysine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is
2'-Ethyl-4'-methoxy-biphenylalanine (Bip(OMe)) which structurally
mimics Phenyl alanine

<400> 679

Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Lys Phe

1 5 10

<210> 680

<211> 15

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is alpha-amino-isobutyric acid
(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino-isobutyric acid
(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har) which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is Arginine(Nitro) (Arg(NO2))
which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is
2'-Ethyl-4'-methoxy-biphenylalanine (Bip(OMe)) which structurally
mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic
acid (APPA) which structurally mimics Phenyl alanine

<400> 680

Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Arg Phe Phe

1 5 10 15

<210> 681

<211> 15

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

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<223> Modified residue at this position is alpha-amino-isobutyric acid

(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino-isobutyric acid
(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle) which
structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

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structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is Arginine(Nitro) (Arg(NO2))
which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is
2'-Ethyl-4'-methoxy-biphenylalanine (Bip(OMe)) which structurally
mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic
acid (APPA) which structurally mimics Phenyl alanine

<400> 681

Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Arg Phe Phe

1 5 10 15

<210> 682

<211> 15

<212> PRT

<213> Artificial

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<220><221> MISC_FEATURE

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<223> Modified residue at this position is alpha-amino-isobutyric acid
(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino-isobutyric acid

(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har) which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is Arginine(Nitro) (Arg(NO2))
which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(13)

<223> Modified residue at this position is
2'-Ethyl-4'-methoxy-biphenylalanine (Bip(OMe)) which structurally

mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic
acid (APPA) which structurally mimics Phenyl alanine

<400> 682

Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Arg Phe Phe

1 5 10 15

<210> 683

<211> 15

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is 1-amino cyclopropane
carboxylic acid (AC3C) which structurally mimics alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino-isobutyric acid
(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle) which
structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har) which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is Arginine(Nitro) (Arg(NO2))
which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is
2'-Ethyl-4'-methoxy-biphenylalanine (Bip(OMe)) which structurally
mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic
acid (APPA) which structurally mimics Phenyl alanine

<400> 683

Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Arg Phe Phe

1

5

10

15

<210> 684

<211> 15

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is

1-amino-cyclopentanecarboxylic acid (AC5C) which structurally

mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino-isobutyric acid

(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har) which

structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is Arginine(Nitro) (Arg(NO2))

which structurally mimics Arginine

<

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is

2'-Ethyl-4'-methoxy-biphenylalanine (Bip(OMe)) which structurally

mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic

acid (APPA) which structurally mimics Phenyl alanine

<400> 684

Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Arg Phe Phe

1 5 10 15

<210> 685

<211> 15

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

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<223> Modified residue at this position is

1-amino-cyclopentanecarboxylic acid (AC5C) which structurally
mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino-isobutyric acid

(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har) which

structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (12)..(12)

<223> Modified residue at this position is alpha-amino-isobutyric acid

(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is Arginine(Nitro) (Arg(NO2))

which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223>

> Modified residue at this position is

2'-Ethyl-4'-methoxy-biphenylalanine (Bip(OMe)) which structurally
mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic acid (APPA) which structurally mimics Phenyl alanine

<400> 685

Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Arg Phe Phe

1 5 10 15

<210> 686

<211> 15

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is alpha-amino isobutyric acid (Aib), which structurally mimics alanine.

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino isobutyric acid (Aib), which structurally mimics alanine.

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is N-methyl methionine ((NMe)M)

which structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is alkylated lysine (K(-CO-(CH₂)₈-CH₃)) which structurally mimics Lysine.

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is 2'-Ethyl-4'-methoxy-biphenylalanine (Bip(OMe)) which structurally mimics Phenyl alanine.

<400> 686

Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Arg Phe Phe

1 5 10 15

<210> 687

<211> 15

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is alpha-amino-isobutyric acid
(Aib) which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino-isobutyric acid
(Aib) which structurally mimics Alanine.

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is N-methyl Norleucine
((NMe)Nle) which structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is alkylated lysine
(K(-CO-(CH₂)₈-CH₃)) which structurally mimics Lysine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is
2'-Ethyl-4'-methoxy-biphenylalanine (Bip(OMe)) which structurally
mimics Phenyl alanine

<400> 687

Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Arg Phe Phe

1 5 10 15

<210> 688

<211> 15

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is alpha-amino-isobutyric acid
(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is 1-amino cyclopropane
carboxylic acid (AC3C) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle) which
structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har) which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is Arginine(Nitro) (Arg(NO2))
which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is
2'-Ethyl-4'-methoxy-biphenylalanine (Bip(OMe)) which structurally
mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic

acid (APPA) which structurally mimics Phenyl alanine

<400> 688

Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Arg Phe Phe

1 5 10 15

<210> 689

<211> 15

<212> PRT

<213

> Artificial

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carboxylic acid (AC3C) which structurally mimics alanine

<220><221> MISC_FEATURE

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carboxylic acid (AC3C) which structurally mimics alanine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har) which

structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is Arginine(Nitro) (Arg(N02))

which structurally mimics Arginine

<220><221> MISC_FEATURE

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2'-Ethyl-4'-methoxy-biphenylalanine (Bip(OMe)) which structurally

mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic

acid (APPA) which structurally mimics Phenyl alanine

<400> 689

Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Arg Phe Phe

1 5 10 15

<210> 690

<211> 15

<212> PRT

<213> Artificial

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<220><221> MISC_FEATURE

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<223> Modified residue at this position is 1-amino cyclopropane
carboxylic acid (AC3C) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is 1-amino cyclopropane
carboxylic acid (AC3C) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle) which
structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har) which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

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which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is
2'-Ethyl-4'-methoxy-biphenylalanine (Bip(OMe)) which structurally
mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic
acid (APPA) which structurally mimics Phenyl alanine

<400> 690

Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Arg Phe Phe

1 5 10 15

<210> 691

<211> 15

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is
1-amino-cyclopentanecarboxylic acid (AC5C) which structurally
mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is 1-amino cyclopropane

carboxylic acid (AC3C) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har) which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is Arginine(Nitro) (Arg(NO2))
which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is

2'-Ethyl-4'-methoxy-biphenylalanine (Bip(OMe)) which structurally

mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic

acid (APPA) which structurally mimics Phenyl alanine

<400> 691

Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Arg Phe Phe

1 5 10 15

<210> 692

<211> 15

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is

1-amino-cyclopentanecarboxylic acid (AC5C) which structurally

mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is 1-amino cyclopropane

carboxylic acid (AC3C) which structurally mimics Alanine

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<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle) which

structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har) which

structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is Arginine(Nitro) (Arg(NO2))
which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(13)

<223> Modified residue at this position is
2'-Ethyl-4'-methoxy-biphenylalanine (Bip(OMe)) which structurally
mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic
acid (APPA) which structurally mimics Phenyl alanine

<400> 692

Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Arg Phe Phe

1 5 10 15

<210> 693

<211> 15

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is alpha-amino-isobutyric acid

(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino-isobutyric acid

(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is

alpha-methyl-2,6-difluorophenylalanine (-Me-2,6F-Phe) which structurally mimics Phenyl alanine.

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle) which structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har) which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is Arginine(Nitro) (Arg(NO2)) which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is 2'-Ethyl-4'-methoxy-biphenylalanine (Bip(OMe)) which structurally mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic acid (APPA) which structurally mimics Phenyl alanine

<400> 693

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe Phe

1 5 10 15

<210> 694

<211> 15

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

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<223> Modified residue at this position is 1-amino cyclopropane
carboxylic acid (AC3C) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino-isobutyric acid
(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is
alpha-methyl-2,6-difluorophenylalanine (alpha-Me-2,6F-Phe) which
structurally mimics Phenyl alanine.

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle) which
structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har) which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is Arginine(Nitro) (Arg(NO2))
which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is
2'-Ethyl-4'-methoxy-biphenylalanine (Bip(OMe)) which structurally
mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic
acid (APPA) which structurally mimics Phenyl alanine

<400> 694

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe Phe

1 5 10 15

<210> 695

<211> 15

<212> PRT

<213>

> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is

1-amino-cyclopentanecarboxylic acid (AC5C) which structurally
mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino-isobutyric acid

(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is

alpha-methyl-2,6-difluorophenylalanine (-Me-2,6F-Phe) which
structurally mimics Phenyl alanine.

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har) which

structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

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which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is

2'-Ethyl-4'-methoxy-biphenylalanine (Bip(OMe)) which structurally mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic acid (APPA) which structurally mimics Phenyl alanine

<400> 695

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe Phe

1 5 10 15

<210> 696

<211> 15

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is alpha-amino isobutyric acid (Aib), which structurally mimics alanine.

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is 1-amino cyclopropane carboxylic acid (AC3C) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is alpha-methyl-2,6-difluorophenylalanine (-Me-2,6F-Phe) which structurally mimics Phenyl alanine.

<220><221> MISC_FEATURE

<222> (8)..(8)

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<220><221> MISC_FEATURE

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<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic acid (APPA) which structurally mimics Phenyl alanine

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1 5 10 15

<210> 697

<211> 15

<212> PRT

<213

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alpha-methyl-2,6-difluorophenylalanine (alpha-Me-2,6F-Phe) which structurally mimics Phenyl alanine.

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which structurally mimics Arginine

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10

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mimics Phenyl alanine

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acid (APPA) which structurally mimics Phenyl alanine

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<210> 700

<211> 15

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(Aib) which structurally mimics Alanine.

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structurally mimics Phenyl alanine

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structurally mimics Methionine

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structurally mimics Arginine

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1 5 10 15

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1 5 10 15

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<223> Modified residue at this position is Homoarginine (Har) which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is Arginine(Nitro) (Arg(NO2))
which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is
alpha-methyl-2,6-difluorophenylalanine (alpha-Me-2,6F-Phe) which
structurally mimics Phenyl alanine.

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic

acid (APPA) which structurally mimics Phenyl alanine

<400> 711

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe Phe

1 5 10 15

<210> 712

<211> 15

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is 1-amino cyclopropane

carboxylic acid (AC3C) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino-isobutyric acid

(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is

alpha-methyl-2,6-difluorophenylalanine (alpha-Me-2,6F-Phe) which

structurally mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle) which

structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har) which

structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

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which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is

alpha-methyl-2,6-difluorophenylalanine (alpha-Me-2,6F-Phe) which

structurally mimics Phenyl alanine.

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic

acid (APPA) which structurally mimics Phenyl alanine

<400> 712

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe Phe

1 5 10 15

<210> 713

<211> 15

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is

1-amino-cyclopentanecarboxylic acid (AC5C) which structurally
mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino-isobutyric acid

(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is

alpha-methyl-2,6-difluorophenylalanine (alpha-Me-2,6F-Phe) which
structurally mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle) which structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har) which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is Arginine(Nitro) (Arg(NO2)) which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is alpha-methyl-2,6-difluorophenylalanine (alpha-Me-2,6F-Phe) which structurally mimics Phenyl alanine.

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic acid (APPA) which structurally mimics Phenyl alanine

<400> 713

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe Phe

1 5 10 15

<210> 714

<211> 15

<212>

PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is alpha-amino-isobutyric acid (Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is 1-amino cyclopropane
carboxylic acid (AC3C) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is

alpha-methyl-2,6-difluorophenylalanine (alpha-Me-2,6F-Phe) which
structurally mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle) which
structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har) which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is Arginine(Nitro) (Arg(NO2))

which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is
alpha-methyl-2,6-difluorophenylalanine (alpha-Me-2,6F-Phe) which
structurally mimics Phenyl alanine.

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic
acid (APPA) which structurally mimics Phenyl alanine

<400> 714

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe Phe

1

5

10

15

<210> 715

<211> 15

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

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<223> Modified residue at this position is 1-amino cyclopropane
carboxylic acid (AC3C) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is 1-amino cyclopropane
carboxylic acid (AC3C) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is
alpha-methyl-2,6-difluorophenylalanine (alpha-Me-2,6F-Phe) which
structurally mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle) which
structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har) which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is Arginine(Nitro) (Arg(NO2))
which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is
alpha-methyl-2,6-difluorophenylalanine (alpha-Me-2,6F-Phe) which
structurally mimics Phenyl alanine.

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic
acid (APPA) which structurally mimics Phenyl alanine

<400> 715

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe Phe

1 5 10 15

<210> 716

<211> 15

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is
1-amino-cyclopentanecarboxylic acid (AC5C) which structurally
mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is 1-amino cyclopropane

carboxylic acid (AC3C) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is
alpha-methyl-2,6-difluorophenylalanine (alpha-Me-2,6F-Phe) which
structurally mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle) which

structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har) which

structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is Arginine(Nitro) (Arg(NO2))

which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is

alpha-methyl-2,6-difluorophenylalanine (alpha-Me-2,6F-Phe) which

structurally mimics Phenyl alanine.

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic

acid (APPA) which structurally mimics Phenyl alanine

<400> 716

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe Phe

1 5 10 15

<210> 717

<211> 15

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

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<223> Modified residue at this position is alpha-amino-isobutyric acid

(Aib) which structurally mimics Alanine

<220><221>

> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino-isobutyric acid
(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is
alpha-methyl-2,6-difluorophenylalanine (alpha-Me-2,6F-Phe) which
structurally mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle) which
structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har) which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is Arginine(Nitro) (Arg(NO2))
which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is
alpha-methyl-2,6-difluorophenylalanine (alpha-Me-2,6F-Phe) which
structurally mimics Phenyl alanine.

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic
acid (APPA) which structurally mimics Phenyl alanine

<400> 717

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe Phe

1 5 10 15

<210> 718

<211> 15

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is 1-amino cyclopropane

carboxylic acid (AC3C) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino-isobutyric acid
(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is
alpha-methyl-2,6-difluorophenylalanine (alpha-Me-2,6F-Phe) which
structurally mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle) which

structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har) which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is Arginine(Nitro) (Arg(NO2))
which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is
alpha-methyl-2,6-difluorophenylalanine (alpha-Me-2,6F-Phe) which

structurally mimics Phenyl alanine.

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic acid (APPA) which structurally mimics Phenyl alanine

<400> 718

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe Phe

1 5 10 15

<210> 719

<211> 15

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is 1-amino-cyclopentanecarboxylic acid (AC5C) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino-isobutyric acid (Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is alpha-methyl-2,6-difluorophenylalanine (alpha-Me-2,6F-Phe) which structurally mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle) which structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har) which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is Arginine(Nitro) (Arg(N02)) which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is alpha-methyl-2,6-difluorophenylalanine (alpha-Me-2,6F-Phe) which structurally mimics Phenyl alanine.

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic acid (APPA) which structurally mimics Phenyl alanine

<400> 719

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1 5 10 15

<210> 720

<211> 15

<212>

PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is alpha-amino-isobutyric acid (Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is 1-amino cyclopropane carboxylic acid (AC3C) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is

alpha-methyl-2,6-difluorophenylalanine (alpha-Me-2,6F-Phe) which
structurally mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle) which
structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har) which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is Arginine(Nitro) (Arg(NO2))

which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is
alpha-methyl-2,6-difluorophenylalanine (alpha-Me-2,6F-Phe) which
structurally mimics Phenyl alanine.

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic
acid (APPA) which structurally mimics Phenyl alanine

<400> 720

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe Phe

1 5 10 15

<210> 721

<211> 15

<212> PRT

<213> Artificial

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<220><221> MISC_FEATURE

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carboxylic acid (AC3C) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is 1-amino cyclopropane
carboxylic acid (AC3C) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

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alpha-methyl-2,6-difluorophenylalanine (alpha-Me-2,6F-Phe) which
structurally mimics Phenyl alanine

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<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle) which
structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har) which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is Arginine(Nitro) (Arg(N02))
which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

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alpha-methyl-2,6-difluorophenylalanine (alpha-Me-2,6F-Phe) which
structurally mimics Phenyl alanine.

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic

acid (APPA) which structurally mimics Phenyl alanine

<400> 721

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe Phe

1 5 10 15

<210> 722

<211> 15

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is

1-amino-cyclopentanecarboxylic acid (AC5C) which structurally
mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is 1-amino cyclopropane

carboxylic acid (AC3C) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is

alpha-methyl-2,6-difluorophenylalanine (alpha-Me-2,6F-Phe) which
structurally mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle) which

structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har) which

structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is Arginine(Nitro) (Arg(NO2))
which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is
alpha-methyl-2,6-difluorophenylalanine (alpha-Me-2,6F-Phe) which
structurally mimics Phenyl alanine.

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic

acid (APPA) which structurally mimics Phenyl alanine

<400> 722

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe Phe

1 5 10 15

<210> 723

<211> 15

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

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<223> Modified residue at this position is alpha-amino-isobutyric acid
(Aib) which structurally mimics Alanine

<220><221>

> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino-isobutyric acid
(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is
alpha-methyl-2,6-difluorophenylalanine (alpha-Me-2,6F-Phe) which
structurally mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle) which structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har) which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is Arginine(Nitro) (Arg(NO2)) which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is alpha-methyl-2,6-difluorophenylalanine (alpha-Me-2,6F-Phe) which structurally mimics Phenyl alanine.

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic acid (APPA) which structurally mimics Phenyl alanine

<400> 723

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe Phe

1 5 10 15

<210> 724

<211> 15

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is 1-amino cyclopropane

carboxylic acid (AC3C) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino-isobutyric acid
(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

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alpha-methyl-2,6-difluorophenylalanine (alpha-Me-2,6F-Phe) which
structurally mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle) which

structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

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structurally mimics Arginine

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<222> (13)..(13)

<223> Modified residue at this position is Arginine(Nitro) (Arg(NO2))
which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is
alpha-methyl-2,6-difluorophenylalanine (alpha-Me-2,6F-Phe) which

structurally mimics Phenyl alanine.

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic
acid (APPA) which structurally mimics Phenyl alanine

<400> 724

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe Phe

1	5	10	15

<210> 725
 <211> 15
 <212> PRT
 <213> Artificial
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 <220><221> MISC_FEATURE

 <222> (1)..(1)
 <223> Modified residue at this position is
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 mimics Alanine
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 (Aib) which structurally mimics Alanine
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 alpha-methyl-2,6-difluorophenylalanine (alpha-Me-2,6F-Phe) which
 structurally mimics Phenyl alanine

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 structurally mimics Methionine
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 structurally mimics Arginine
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 which structurally mimics Arginine
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<222> (14)..(14)

<223> Modified residue at this position is
alpha-methyl-2,6-difluorophenylalanine (alpha-Me-2,6F-Phe) which
structurally mimics Phenyl alanine.

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic
acid (APPA) which structurally mimics Phenyl alanine

<400> 725

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe Phe

1 5 10 15

<210> 726

<211> 15

<212>

PRT

<213> Artificial

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<220><221> MISC_FEATURE

<222> (1)..(1)

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1-amino-cyclopentanecarboxylic acid (AC5C) which structurally
mimics Alanine

<220><221> MISC_FEATURE

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<223> Modified residue at this position is alpha-amino-isobutyric acid
(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

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alpha-methyl-2,6-difluorophenylalanine (alpha-Me-2,6F-Phe) which
structurally mimics Phenyl alanine

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<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle) which structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har) which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (12)..(12)

<223> Modified residue at this position is alpha-amino-isobutyric acid

(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is Arginine(Nitro) (Arg(NO2)) which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is alpha-methyl-2,6-difluorophenylalanine (alpha-Me-2,6F-Phe) which structurally mimics Phenyl alanine.

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic

acid (APPA) which structurally mimics Phenyl alanine

<400> 726

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1 5 10 15

<210> 727

<211> 15

<212> PRT

<213> Artificial

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(Aib) which structurally mimics Alanine

<220><221

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<222> (3)..(3)

<223> Modified residue at this position is 1-amino cyclopropane
carboxylic acid (AC3C) which structurally mimics Alanine

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alpha-methyl-2,6-difluorophenylalanine (alpha-Me-2,6F-Phe) which
structurally mimics Phenyl alanine

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structurally mimics Methionine

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structurally mimics Arginine

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which structurally mimics Arginine

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structurally mimics Phenyl alanine.

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1 5 10 15

<210> 728

<211> 15

<212> PRT

<213> Artificial

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carboxylic acid (AC3C) which structurally mimics Alanine

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carboxylic acid (AC3C) which structurally mimics Alanine

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alpha-methyl-2,6-difluorophenylalanine (alpha-Me-2,6F-Phe) which
structurally mimics Phenyl alanine

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structurally mimics Methionine

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structurally mimics Arginine

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which structurally mimics Arginine

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structurally mimics Phenyl alanine.

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<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic

acid (APPA) which structurally mimics Phenyl alanine

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1 5 10 15

<210> 729

<211> 15

<212> PRT

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carboxylic acid (AC3C) which structurally mimics Alanine

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carboxylic acid (AC3C) which structurally mimics Alanine

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structurally mimics Phenyl alanine

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<222> (13)..(13)

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<220><221> MISC_FEATURE

<222> (14)..(14)

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<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic acid (APPA) which structurally mimics Phenyl alanine

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1 5 10 15

<210> 730

<211> 15

<212>

PRT

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<222> (3)..(3)

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(Aib) which structurally mimics Alanine

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structurally mimics Methionine

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structurally mimics Arginine

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2'-Ethyl-4'-methoxy-biphenylalanine (Bip(OMe)) which structurally
mimics Phenyl alanine

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<222> (15)..(15)

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acid (APPA) which structurally mimics Phenyl alanine

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1 5 10 15

<210> 731

<211> 15

<212> PRT

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<220><221> MISC_FEATURE

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mimics Alanine

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<222> (3)..(3)

<223> Modified residue at this position is alpha-amino-isobutyric acid
(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (8)..(8)

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structurally mimics Methionine

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<222> (11)..(11)

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structurally mimics Arginine

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2'-Ethyl-4'-methoxy-biphenylalanine (Bip(OMe)) which structurally
mimics Phenyl alanine

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<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic
acid (APPA) which structurally mimics Phenyl alanine

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1 5 10 15

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structurally mimics Methionine

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structurally mimics Arginine

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structurally mimics Arginine.

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mimics Phenyl alanine

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<222> (15)..(15)

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1 5 10 15

<210> 733

<211> 15

<212> PRT

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structurally mimics Methionine

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structurally mimics Arginine.

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2'-Ethyl-4'-methoxy-biphenylalanine (Bip(OMe)) which structurally
mimics Phenyl alanine

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<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic

acid (APPA) which structurally mimics Phenyl alanine

<400> 733

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1	5	10	15

<210> 734
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1 5 10 15

<210> 735

<211> 15

<212> PRT

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mimics Alanine

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(Aib) which structurally mimics Alanine

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structurally mimics Methionine

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structurally mimics Arginine

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(Aib) which structurally mimics Alanine

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2'-Ethyl-4'-methoxy-biphenylalanine (Bip(OMe)) which structurally mimics Phenyl alanine

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<222> (15)..(15)

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<400> 735

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1 5 10 15

<210> 736

<211> 15

<212> PRT

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2'-Ethyl-4'-methoxy-biphenylalanine (Bip(OMe)) which structurally mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic

acid (APPA) which structurally mimics Phenyl alanine

<400> 736

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1 5 10 15

<210> 737

<211> 15

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(Aib) which structurally mimics Alanine

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structurally mimics Methionine

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structurally mimics Arginine

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alpha-methyl-2,6-difluorophenylalanine (alpha-Me-2,6F-Phe) which

structurally mimics Phenyl alanine

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2'-Ethyl-4'-methoxy-biphenylalanine (Bip(OMe)) which structurally

mimics Phenyl alanine

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<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic

acid (APPA) which structurally mimics Phenyl alanine

<400> 737

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1 5 10 15

<210> 738

<211> 15

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(Aib) which structurally mimics Alanine

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structurally mimics Arginine

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mimics Phenyl alanine

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1 5 10 15

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<211> 15

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(Aib) which structurally mimics Alanine

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structurally mimics Methionine

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structurally mimics Arginine

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(Aib) which structurally mimics Alanine

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2'-Ethyl-4'-methoxy-biphenylalanine (Bip(OMe)) which structurally

mimics Phenyl alanine

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<223> Modified residue at this position is 2-amino-5-phenylpentanoic

acid (APPA) which structurally mimics Phenyl alanine

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1	5	10	15

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 (Aib) which structurally mimics Alanine
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2'-Ethyl-4'-methoxy-biphenylalanine (Bip(OMe)) which structurally mimics Phenyl alanine

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<400> 740

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1 5 10 15

<210> 741

<211> 15

<212> PRT

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structurally mimics Arginine.

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mimics Phenyl alanine

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acid (APPA) which structurally mimics Phenyl alanine

<400> 741

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1 5 10 15

<210> 743

<211> 15

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<213> Artificial

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<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is

1-amino-cyclopentanecarboxylic acid (AC5C) which structurally
mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino-isobutyric acid

(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle) which

structurally mimics Methionine

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<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har) which

structurally mimics Arginine

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<222> (12)..(12)

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(Aib) which structurally mimics Alanine

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<222> (13)..(13)

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structurally mimics Arginine.

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<222> (14)..(14)

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2'-Ethyl-4'-methoxy-biphenylalanine (Bip(OMe)) which structurally
mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic

acid (APPA) which structurally mimics Phenyl alanine

<400> 743

Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Ala Phe Phe

1 5 10 15

<210> 744

<211> 15

<212> PRT

<213> Artificial

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(Aib) which structurally mimics Alanine

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(Aib) which structurally mimics Alanine

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structurally mimics Methionine

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structurally mimics Arginine

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(Aib) which structurally mimics Alanine

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<222> (13)..(13)

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alpha-methyl-2,6-difluorophenylalanine (alpha-Me-2,6F-Phe) which structurally mimics Phenyl alanine

<220><221> MISC_FEATURE

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<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic acid (APPA) which structurally mimics Phenyl alanine

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1 5 10 15

<210> 745

<211> 15

<212> PRT

<213> Artificial

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<222> (8)..(8)

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<222> (15)..(15)

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Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Phe Phe Phe

1 5 10 15

<210> 746

<211> 15

<212> PRT

<213> Artificial

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(Aib) which structurally mimics Alanine

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(Aib) which structurally mimics Alanine

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<222> (8)..(8)

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<222> (11)..(11)

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<222> (15)..(15)

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Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Arg Phe Phe

1 5 10 15

<210> 747

<211> 15

<212> PRT

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<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic acid (APPA) which structurally mimics Phenyl alanine

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1 5 10 15

<210> 748

<211> 15

<212> PRT

<213> Artificial

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(Aib) which structurally mimics Alanine

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(Aib) which structurally mimics Alanine

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<222> (8)..(8)

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structurally mimics Methionine

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<222> (11)..(11)

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mimics Arginine.

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<222> (13)..(13)

<223> Modified residue at this position is Citrulline (Cit) which

structurally mimics Arginine.

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2'-Ethyl-4'-methoxy-biphenylalanine (Bip(OMe)) which structurally

mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic

acid (APPA) which structurally mimics Phenyl alanine

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Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Arg Phe Phe

1 5 10 15

<210> 749

<211> 15

<212> PRT

<213> Artificial

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mimics Alanine

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(Aib) which structurally mimics Alanine

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structurally mimics Arginine.

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2'-Ethyl-4'-methoxy-biphenylalanine (Bip(OMe)) which structurally
mimics Phenyl alanine

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<222> (15)..(15)

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acid (APPA) which structurally mimics Phenyl alanine

<400> 749

Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Arg Phe Phe

1 5 10 15

<210> 750

<211> 15

<212> PRT

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(Aib) which structurally mimics Alanine

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(Aib) which structurally mimics Alanine

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structurally mimics Methionine

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structurally mimics Arginine.

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2'-Ethyl-4'-methoxy-biphenylalanine (Bip(OMe)) which structurally

mimics Phenyl alanine

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<222> (15)..(15)

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1 5 10 15

<210> 751

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mimics Arginine.

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<222> (15)..(15)

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1 5 10 15

<210> 752

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1 5 10 15

<210> 753

<211> 15

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<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic acid (APPA) which structurally mimics Phenyl alanine

<400> 753

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1 5 10 15

<210> 754

<211> 15

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(Aib) which structurally mimics Alanine

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mimics Phenyl alanine

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acid (APPA) which structurally mimics Phenyl alanine

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Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Arg Phe Phe

1 5 10 15

<210> 755

<211> 15

<212> PRT

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mimics Alanine

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(Aib) which structurally mimics Alanine

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structurally mimics Methionine

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mimics Arginine.

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(Aib) which structurally mimics Alanine

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2'-Ethyl-4'-methoxy-biphenylalanine (Bip(OMe)) which structurally
mimics Phenyl alanine

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<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic
acid (APPA) which structurally mimics Phenyl alanine

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Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Arg Phe Phe

1 5 10 15

<210> 756

<211> 15

<212> PRT

<213> Artificial

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(Aib) which structurally mimics Alanine

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(Aib) which structurally mimics Alanine

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structurally mimics Methionine

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mimics Arginine.

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(Aib) which structurally mimics Alanine

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structurally mimics Arginine.

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2'-Ethyl-4'-methoxy-biphenylalanine (Bip(OMe)) which structurally mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic acid (APPA) which structurally mimics Phenyl alanine

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Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Arg Phe Phe

1 5 10 15

<210> 757

<211> 15

<212> PRT

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(Aib) which structurally mimics Alanine

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structurally mimics Arginine.

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2'-Ethyl-4'-methoxy-biphenylalanine (Bip(OMe)) which structurally
mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic
acid (APPA) which structurally mimics Phenyl alanine

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1 5 10 15

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<211> 15

<212> PRT

<213> Artificial

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(Aib) which structurally mimics Alanine

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(Aib) which structurally mimics Alanine

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> Modified residue at this position is Orn which structurally mimics Arginine.

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<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic acid (APPA) which structurally mimics Phenyl alanine

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1 5 10 15

<210> 759

<211> 15

<212> PRT

<213> Artificial

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1-amino-cyclopentanecarboxylic acid (AC5C) which structurally
mimics Alanine

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(Aib) which structurally mimics Alanine

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structurally mimics Methionine

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(11)..(11)

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(Aib) which structurally mimics Alanine

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(Aib) which structurally mimics Alanine

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2'-Ethyl-4'-methoxy-biphenylalanine (Bip(OMe)) which structurally
mimics Phenyl alanine

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<400> 759

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1 5 10 15

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<222> (8)..(8)

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structurally mimics Phenyl alanine

<220><221> MISC_FEATURE

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mimics Phenyl alanine

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<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic
acid (APPA) which structurally mimics Phenyl alanine

<400> 760

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1 5 10 15

<210> 761

<211> 15

<212> PRT

<213> Artificial

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mimics Alanine

<220><221> MISC_FEATURE

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(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

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structurally mimics Phenyl alanine

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<210> 762

<211> 15

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structurally mimics Arginine.

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1 5 10 15

<210> 763

<211> 15

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structurally mimics Arginine.

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1 5 10 15

<210> 764

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structurally mimics Methionine

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structurally mimics Arginine.

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structurally mimics Arginine.

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mimics Phenyl alanine

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structurally mimics Methionine

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structurally mimics Arginine.

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mimics Phenyl alanine

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1 5 10 15

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(Aib) which structurally mimics Alanine

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(Aib) which structurally mimics Alanine

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<222> (15)..(15)

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1 5 10 15

<210> 767

<211> 15

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mimics Phenyl alanine

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acid (APPA) which structurally mimics Phenyl alanine

<400> 767

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1 5 10 15

<210> 768

<211> 15

<212> PRT

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<222> (15)..(15)

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<400> 768

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1 5 10 15

<210> 769

<211> 15

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(Aib) which structurally mimics Alanine

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1 5 10 15

<210> 770

<211> 15

<212> PRT

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structurally mimics Arginine.

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mimics Phenyl alanine

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1 5 10 15

<210> 771

<211> 15

<212> PRT

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mimics Alanine

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1 5 10 15

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mimics Phenyl alanine

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(Aib) which structurally mimics Alanine

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structurally mimics Phenyl alanine

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acid (APPA) which structurally mimics Phenyl alanine

<400> 776

Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Phe Phe Phe

1 5 10 15

<210> 777

<211> 15

<212> PRT

<213> Artificial

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<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is
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mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

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(Aib) which structurally mimics Alanine

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<222> (8)..(8)

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<211> 15

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<213> Artificial

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(Aib) which structurally mimics Alanine

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<210> 779

<211> 15

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1 5 10 15

<210> 780

<211> 15

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Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Arg Phe Phe

1	5	10	15

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<222> (15)..(15)

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1 5 10 15

<210> 783

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mimics Phenyl alanine

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Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Ala Phe Phe

1 5 10 15

<210> 784

<211> 15

<212> PRT

<213> Artificial

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<400> 784

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1 5 10 15

<210> 785

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structurally mimics Phenyl alanine

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1 5 10 15

<210> 786

<211> 15

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(Aib) which structurally mimics Alanine

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1	5	10	15

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<222> (14)..(14)

<223> Modified residue at this position is 2'-Ethyl-4'-methoxy-biphenylalanine (Bip(OMe)) which structurally mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic acid (APPA) which structurally mimics Phenyl alanine

<400> 793

Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Phe Phe Phe

1 5 10 15

<210> 794

<211> 15

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is alpha-amino-isobutyric acid
(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino-isobutyric acid

(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle) which
structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

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alpha-methyl-2,6-difluorophenylalanine (alpha-Me-2,6F-Phe) which
structurally mimics Phenyl alanine

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mimics Phenyl alanine

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<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic
acid (APPA) which structurally mimics Phenyl alanine

<400> 794

Ala Val Ala Glu Ile Gln Leu Met His Gln Phe Ala Arg Phe Phe

1 5 10 15

<210> 795

<211> 15

<212> PRT

<213> Artificial

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<220><221> MISC_FEATURE

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1-amino-cyclopentanecarboxylic acid (AC5C) which structurally
mimics Alanine

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(Aib) which structurally mimics Alanine

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structurally mimics Methionine

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structurally mimics Phenyl alanine

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2'-Ethyl-4'-methoxy-biphenylalanine (Bip(OMe)) which structurally
mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic

acid (APPA) which structurally mimics Phenyl alanine

<400> 795

Ala Val Ala Glu Ile Gln Leu Met His Gln Phe Ala Arg Phe Phe

1 5 10 15

<210> 796

<211> 15

<212> PRT

<213> Artificial

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mimics Alanine

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(Aib) which structurally mimics Alanine

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structurally mimics Methionine

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structurally mimics Phenyl alanine

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2'-Ethyl-4'-methoxy-biphenylalanine (Bip(OMe)) which structurally

mimics Phenyl alanine

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acid (APPA) which structurally mimics Phenyl alanine

<400> 796

Ala Val Ala Glu Ile Gln Leu Met His Gln Phe Ala Arg Phe Phe

1 5 10 15

<210> 797

<211> 15

<212> PRT

<213> Artificial

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1-amino-cyclopentanecarboxylic acid (AC5C) which structurally

mimics Alanine

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(Aib) which structurally mimics Alanine

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structurally mimics Methionine

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structurally mimics Phenyl alanine

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structurally mimics Arginine.

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mimics Phenyl alanine

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<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic
acid (APPA) which structurally mimics Phenyl alanine

<400> 797

Ala Val Ala Glu Ile Gln Leu Met His Gln Phe Ala Arg Phe Phe

1 5 10 15

<210> 798

<211> 15

<212> PRT

<213> Artificial

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(Aib) which structurally mimics Alanine

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(Aib) which structurally mimics Alanine

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<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle) which
structurally mimics Methionine

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<222> (11)..(11)

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structurally mimics Phenyl alanine

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(Aib) which structurally mimics Alanine

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2'-Ethyl-4'-methoxy-biphenylalanine (Bip(OMe)) which structurally
mimics Phenyl alanine

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<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic
acid (APPA) which structurally mimics Phenyl alanine

<400> 798

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1 5 10 15

<210> 799

<211> 15

<212> PRT

<213> Artificial

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mimics Alanine

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(Aib) which structurally mimics Alanine

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<222> (8)..(8)

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structurally mimics Methionine

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structurally mimics Phenyl alanine

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(Aib) which structurally mimics Alanine

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mimics Phenyl alanine

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acid (APPA) which structurally mimics Phenyl alanine

<400> 799

Ala Val Ala Glu Ile Gln Leu Met His Gln Phe Ala Ala Phe Phe

1 5 10 15

<210> 800

<211> 15

<212> PRT

<213> Artificial

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(Aib) which structurally mimics Alanine

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structurally mimics Phenyl alanine

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<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic acid (APPA) which structurally mimics Phenyl alanine

<400> 800

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1 5 10 15

<210> 801

<211> 15

<212> PRT

<213> Artificial

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<220><221> MISC_FEATURE

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1-amino-cyclopentanecarboxylic acid (AC5C) which structurally
mimics Alanine

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(Aib) which structurally mimics Alanine

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structurally mimics Methionine

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structurally mimics Phenyl alanine

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mimics Phenyl alanine

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<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic

acid (APPA) which structurally mimics Phenyl alanine

<400> 801

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1 5 10 15

<210> 802

<211> 15

<212> PRT

<213> Artificial

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(Aib) which structurally mimics Alanine

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(Aib) which structurally mimics Alanine

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structurally mimics Methionine

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structurally mimics Phenyl alanine

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2'-Ethyl-4'-methoxy-biphenylalanine (Bip(OMe)) which structurally mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic acid (APPA) which structurally mimics Phenyl alanine

<400> 802

Ala Val Ala Glu Ile Gln Leu Met His Gln Phe Ala Arg Phe Phe

1 5 10 15

<210> 803

<211> 15

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

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1-amino-cyclopentanecarboxylic acid (AC5C) which structurally mimics Alanine

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mimics Phenyl alanine

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acid (APPA) which structurally mimics Phenyl alanine

<400> 803

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1 5 10 15

<210> 804

<211> 15

<212> PRT

<213> Artificial

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structurally mimics Methionine

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structurally mimics Phenyl alanine

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structurally mimics Arginine

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mimics Phenyl alanine

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<222> (15)..(15)

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acid (APPA) which structurally mimics Phenyl alanine

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1 5 10 15

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<211> 15

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1-amino-cyclopentanecarboxylic acid (AC5C) which structurally mimics Alanine

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<223> Modified residue at this position is alpha-amino-isobutyric acid (Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

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<223> Modified residue at this position is Norleucine (Nle) which structurally mimics Methionine

<220><221> MISC_FEATURE

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1 5 10 15

<210> 806

<211> 15

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(Aib) which structurally mimics Alanine

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(Aib) which structurally mimics Alanine

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structurally mimics Methionine

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structurally mimics Phenyl alanine

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(Aib) which structurally mimics Alanine

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(Aib) which structurally mimics Alanine

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2'-Ethyl-4'-methoxy-biphenylalanine (Bip(OMe)) which structurally mimics Phenyl alanine

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<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic

acid (APPA) which structurally mimics Phenyl alanine

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1 5 10 15

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(Aib) which structurally mimics Alanine

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structurally mimics Methionine

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structurally mimics Phenyl alanine

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acid (APPA) which structurally mimics Phenyl alanine

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structurally mimics Phenyl alanine

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structurally mimics Phenyl alanine

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mimics Phenyl alanine

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acid (APPA) which structurally mimics Phenyl alanine

<400> 808

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structurally mimics Methionine

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structurally mimics Phenyl alanine

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<223> Modified residue at this position is 2-amino-5-phenylpentanoic acid (APPA) which structurally mimics Phenyl alanine

<400> 809

Ala Val Ala Glu Ile Gln Leu Met His Gln Phe Ala Phe Phe Phe

1 5 10 15

<210> 810

<211> 15

<212> PRT

<213> Artificial

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<222> (1)..(1)

<223> Modified residue at this position is

1-amino-cyclopentanecarboxylic acid (AC5C) which structurally mimics Alanine

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alpha-methyl-2,6-difluorophenylalanine (alpha-Me-2,6F-Phe) which structurally mimics Phenyl alanine

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<211> 15

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<210> 816

<211> 15

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<211> 15

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<211> 15

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<211> 15

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1 5 10 15

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alpha-methyl-2,6-difluorophenylalanine (alpha-Me-2,6F-Phe) which

structurally mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is

2'-Ethyl-4'-methoxy-biphenylalanine (Bip(OMe)) which structurally
mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic
acid (APPA) which structurally mimics Phenyl alanine

<400> 824

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Phe Phe Phe

1 5 10 15

<210> 825

<211> 15

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is

1-amino-cyclopentanecarboxylic acid (AC5C) which structurally
mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino-isobutyric acid
(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is

alpha-methyl-2,6-difluorophenylalanine (alpha-Me-2,6F-Phe) which

structurally mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle) which
structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har) which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (12)..(12)

<223> Modified residue at this position is alpha-amino-isobutyric acid
(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is
alpha-methyl-2,6-difluorophenylalanine (alpha-Me-2,6F-Phe) which
structurally mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is
2'-Ethyl-4'-methoxy-biphenylalanine (Bip(OMe)) which structurally
mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic
acid (APPA) which structurally mimics Phenyl alanine

<400> 825

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Phe Phe Phe

1 5 10 15

<210> 826

<211> 15

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is alpha-amino-isobutyric acid
(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino-isobutyric acid
(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is
alpha-methyl-2,6-difluorophenylalanine (alpha-Me-2,6F-Phe) which
structurally mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle) which
structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Orn which structurally
mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is
2'-Ethyl-4'-methoxy-biphenylalanine (Bip(OMe)) which structurally
mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic
acid (APPA) which structurally mimics Phenyl alanine

<400> 826

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe Phe

1 5 10 15

<210> 827

<211> 15

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is

1-amino-cyclopentanecarboxylic acid (AC5C) which structurally
mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino-isobutyric acid
(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is
alpha-methyl-2,6-difluorophenylalanine (alpha-Me-2,6F-Phe) which
structurally mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle) which
structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Orn which structurally
mimics Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is Citrulline (Cit) which

structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is

2'-Ethyl-4'-methoxy-biphenylalanine (Bip(OMe)) which structurally

mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic

acid (APPA) which structurally mimics Phenyl alanine

<400> 827

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe Phe

1 5 10 15

<210> 828

<211> 15

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is alpha-amino-isobutyric acid

(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino-isobutyric acid

(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is

alpha-methyl-2,6-difluorophenylalanine (alpha-Me-2,6F-Phe) which

structurally mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle) which structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Orn which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is Citrulline (Cit) which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is

2'-Ethyl-4'-methoxy-biphenylalanine (Bip(OMe)) which structurally mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic acid (APPA) which structurally mimics Phenyl alanine

<400> 828

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe Phe

1 5 10 15

<210> 829

<211> 15

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is
1-amino-cyclopentanecarboxylic acid (AC5C) which structurally
mimics Alanine

<220><221> MISC_FEATURE
 <222> (3)..(3)
 <223> Modified residue at this position is alpha-amino-isobutyric acid
 (Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE
 <222> (7)..(7)
 <223> Modified residue at this position is
 alpha-methyl-2,6-difluorophenylalanine (alpha-Me-2,6F-Phe) which

structurally mimics Phenyl alanine

<220><221> MISC_FEATURE
 <222> (8)..(8)
 <223> Modified residue at this position is Norleucine (Nle) which
 structurally mimics Methionine

<220><221> MISC_FEATURE
 <222> (11)..(11)
 <223> Modified residue at this position is Orn which structurally
 mimics Arginine

<220><221> MISC_FEATURE
 <222> (13)..(13)
 <223> Modified residue at this position is Citrulline (Cit) which
 structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)
 <223> Modified residue at this position is
 2'-Ethyl-4'-methoxy-biphenylalanine (Bip(OMe)) which structurally
 mimics Phenyl alanine

<220><221> MISC_FEATURE
 <222> (15)..(15)
 <223> Modified residue at this position is 2-amino-5-phenylpentanoic
 acid (APPA) which structurally mimics Phenyl alanine

<400> 829

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe Phe

1 5 10 15

<210> 830

<211> 15

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is alpha-amino-isobutyric acid

(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino-isobutyric acid

(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is

alpha-methyl-2,6-difluorophenylalanine (alpha-Me-2,6F-Phe) which
structurally mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle) which

structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Orn which structurally

mimics Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is alpha-amino-isobutyric acid

(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is
2'-Ethyl-4'-methoxy-biphenylalanine (Bip(OMe)) which structurally
mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic
acid (APPA) which structurally mimics Phenyl alanine

<400> 830

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Ala Phe Phe

1 5 10 15

<210> 831

<211> 15

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is
1-amino-cyclopentanecarboxylic acid (AC5C) which structurally
mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino-isobutyric acid
(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is
alpha-methyl-2,6-difluorophenylalanine (alpha-Me-2,6F-Phe) which
structurally mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle) which
structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Orn which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is alpha-amino-isobutyric acid (Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is 2'-Ethyl-4'-methoxy-biphenylalanine (Bip(OMe)) which structurally mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic acid (APPA) which structurally mimics Phenyl alanine

<400> 831

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Ala Phe Phe

1 5 10 15

<210> 832

<211> 15

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is alpha-amino-isobutyric acid (Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino-isobutyric acid

(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is

alpha-methyl-2,6-difluorophenylalanine (alpha-Me-2,6F-Phe) which structurally mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle) which

structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Orn which structurally

mimics Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is

alpha-methyl-2,6-difluorophenylalanine (alpha-Me-2,6F-Phe) which structurally mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is

2'-Ethyl-4'-methoxy-biphenylalanine (Bip(OMe)) which structurally mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic

acid (APPA) which structurally mimics Phenyl alanine

<400> 832

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Phe Phe Phe

1 5 10 15

<210> 833

<211> 15

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is

1-amino-cyclopentanecarboxylic acid (AC5C) which structurally
mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino-isobutyric acid

(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is

alpha-methyl-2,6-difluorophenylalanine (alpha-Me-2,6F-Phe) which
structurally mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle) which

structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Orn which structurally

mimics Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is

alpha-methyl-2,6-difluorophenylalanine (alpha-Me-2,6F-Phe) which
structurally mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is

2'-Ethyl-4'-methoxy-biphenylalanine (Bip(OMe)) which structurally

mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic acid (APPA) which structurally mimics Phenyl alanine

<400> 833

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Phe Phe Phe

1 5 10 15

<210> 834

<211> 15

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is alpha-amino-isobutyric acid (Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino-isobutyric acid (Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is alpha-methyl-2,6-difluorophenylalanine (alpha-Me-2,6F-Phe) which structurally mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle) which structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Orn which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (12)..(12)

<223> Modified residue at this position is alpha-amino-isobutyric acid (Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (14)..(14)

<

223> Modified residue at this position is 2'-Ethyl-4'-methoxy-biphenylalanine (Bip(OMe)) which structurally mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic acid (APPA) which structurally mimics Phenyl alanine

<400> 834

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe Phe

1 5 10 15

<210> 835

<211> 15

<212> PRT

<213>

Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is 1-amino-cyclopentanecarboxylic acid (AC5C) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino-isobutyric acid (Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is

alpha-methyl-2,6-difluorophenylalanine (alpha-Me-2,6F-Phe) which
structurally mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle) which
structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Orn which structurally
mimics Arginine

<220><221> MISC_FEATURE

<222> (12)..(12)

<223> Modified residue at this position is alpha-amino-isobutyric acid

(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is

2'-Ethyl-4'-methoxy-biphenylalanine (Bip(OMe)) which structurally
mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic
acid (APPA) which structurally mimics Phenyl alanine

<400> 835

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe Phe

1

5

10

15

<210> 836

<211> 15

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is alpha-amino-isobutyric acid

(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino-isobutyric acid

(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is

alpha-methyl-2,6-difluorophenylalanine (alpha-Me-2,6F-Phe) which

structurally mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle) which

structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Orn which structurally

mimics Arginine

<220><221> MISC_FEATURE

<222> (12)..(12)

<223> Modified residue at this position is alpha-amino-isobutyric acid

(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is Citrulline (Cit) which

structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is
2'-Ethyl-4'-methoxy-biphenylalanine (Bip(OMe)) which structurally
mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic
acid (APPA) which structurally mimics Phenyl alanine

<400> 836

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe Phe

1 5 10 15

<210> 837

<211> 15

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is
1-amino-cyclopentanecarboxylic acid (AC5C) which structurally
mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino-isobutyric acid
(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is
alpha-methyl-2,6-difluorophenylalanine (alpha-Me-2,6F-Phe) which
structurally mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle) which

structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Orn which structurally
mimics Arginine

<220><221> MISC_FEATURE

<222> (12)..(12)

<223> Modified residue at this position is alpha-amino-isobutyric acid
(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is Citrulline (Cit) which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

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223> Modified residue at this position is
2'-Ethyl-4'-methoxy-biphenylalanine (Bip(OMe)) which structurally
mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic
acid (APPA) which structurally mimics Phenyl alanine

<400> 837

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe Phe

1 5 10 15

<210> 838

<211> 15

<212> PRT

<213>

Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is alpha-amino-isobutyric acid
(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino-isobutyric acid
(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is

alpha-methyl-2,6-difluorophenylalanine (alpha-Me-2,6F-Phe) which
structurally mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle) which
structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Orn which structurally
mimics Arginine

<220><221> MISC_FEATURE

<222> (12)..(12)

<223> Modified residue at this position is alpha-amino-isobutyric acid

(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is alpha-amino-isobutyric acid
(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is

2'-Ethyl-4'-methoxy-biphenylalanine (Bip(OMe)) which structurally
mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic

acid (APPA) which structurally mimics Phenyl alanine

<400> 838

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Ala Phe Phe

1 5 10 15

<210> 839

<211> 15

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is

1-amino-cyclopentanecarboxylic acid (AC5C) which structurally
mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino-isobutyric acid

(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is

alpha-methyl-2,6-difluorophenylalanine (alpha-Me-2,6F-Phe) which
structurally mimics Phenyl alanine

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(Aib) which structurally mimics Alanine

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mimics Phenyl alanine

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acid (APPA) which structurally mimics Phenyl alanine

<400> 839

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1 5 10 15

<210> 840

<211> 15

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> PRT

<213> Artificial

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(Aib) which structurally mimics Alanine

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(Aib) which structurally mimics Alanine

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1 5 10 15

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<211> 15

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(Aib) which structurally mimics Alanine

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(Aib) which structurally mimics Alanine

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<211> 15

<212> PRT

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(Aib) which structurally mimics Alanine

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structurally mimics Arginine

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mimics Phenyl alanine

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1 5 10 15

<210> 843

<211> 15

<212> PRT

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1-amino-cyclopentanecarboxylic acid (AC5C) which structurally
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(Aib) which structurally mimics Alanine

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structurally mimics Phenyl alanine

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structurally mimics Arginine

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mimics Phenyl alanine

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acid (APPA) which structurally mimics Phenyl alanine

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<210> 844

<211> 15

<212> PRT

<213> Artificial

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structurally mimics Phenyl alanine

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structurally mimics Methionine

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structurally mimics Arginine

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structurally mimics Arginine

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mimics Phenyl alanine

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1	5	10	15

<210> 845

<211> 15

<212> PRT

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<223> Modified residue at this position is 2-amino-5-phenylpentanoic acid (APPA) which structurally mimics Phenyl alanine

<400> 845

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<211> 15

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structurally mimics Phenyl alanine

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structurally mimics Arginine

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mimics Phenyl alanine

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acid (APPA) which structurally mimics Phenyl alanine

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1 5 10 15

<210> 847

<211> 15

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(Aib) which structurally mimics Alanine

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<210> 848

<211> 15

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<211> 15

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<210> 850

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mimics Phenyl alanine

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1 5 10 15

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(Aib) which structurally mimics Alanine

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(Aib) which structurally mimics Alanine

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alpha-methyl-2,6-difluorophenylalanine (alpha-Me-2,6F-Phe) which structurally mimics Phenyl alanine

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<222> (8)..(8)

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structurally mimics Methionine

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structurally mimics Arginine

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(Aib) which structurally mimics Alanine

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<222> (14)..(14)

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mimics Phenyl alanine

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<223> Modified residue at this position is 2-amino-5-phenylpentanoic
acid (APPA) which structurally mimics Phenyl alanine

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1 5 10 15

<210> 855

<211> 15

<212> PRT

<213> Artificial

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mimics Alanine

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(Aib) which structurally mimics Alanine

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structurally mimics Phenyl alanine

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structurally mimics Arginine

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(Aib) which structurally mimics Alanine

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(Aib) which structurally mimics Alanine

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mimics Phenyl alanine

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<222> (15)..(15)

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1 5 10 15

<210> 856

<211> 15

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(Aib) which structurally mimics Alanine

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structurally mimics Phenyl alanine

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structurally mimics Methionine

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(Aib) which structurally mimics Alanine

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structurally mimics Phenyl alanine

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mimics Phenyl alanine

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acid (APPA) which structurally mimics Phenyl alanine

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1 5 10 15

<210> 857

<211> 15

<212> PRT

<213> Artificial

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mimics Alanine

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(Aib) which structurally mimics Alanine

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structurally mimics Phenyl alanine

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structurally mimics Methionine

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structurally mimics Arginine

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mimics Phenyl alanine

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1 5 10 15

<210> 858

<211> 15

<212> PRT

<213> Artificial

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mimics Phenyl alanine

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acid (APPA) which structurally mimics Phenyl alanine

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1 5 10 15

<210> 859

<211> 15

<212> PRT

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mimics Alanine

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structurally mimics Phenyl alanine

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structurally mimics Methionine

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1 5 10 15

<210> 860

<211> 15

<212> PRT

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structurally mimics Phenyl alanine

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structurally mimics Arginine

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structurally mimics Arginine

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1 5 10 15

<210> 861

<211> 15

<212> PRT

<213> Artificial

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mimics Alanine

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<222> (3)..(3)

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(Aib) which structurally mimics Alanine

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structurally mimics Phenyl alanine

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structurally mimics Arginine

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acid (APPA) which structurally mimics Phenyl alanine

<400> 861

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1 5 10 15

<210> 862

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structurally mimics Phenyl alanine

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structurally mimics Arginine

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(Aib) which structurally mimics Alanine

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mimics Phenyl alanine

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<222> (15)..(15)

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<400> 862

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Ala Phe Phe

1 5 10 15

<210> 863

<211> 15

<212> PRT

<213> Artificial

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mimics Alanine

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structurally mimics Phenyl alanine

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<223> Modified residue at this position is 2-amino-5-phenylpentanoic acid (APPA) which structurally mimics Phenyl alanine

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Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Ala Phe Phe

1 5 10 15

<210> 864

<211> 15

<212> PRT

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(Aib) which structurally mimics Alanine

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<220><221> MISC_FEATURE

<222> (15)..(15)

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acid (APPA) which structurally mimics Phenyl alanine

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1 5 10 15

<210> 865

<211> 15

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structurally mimics Phenyl alanine

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structurally mimics Arginine

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1 5 10 15

<210> 866

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1 5 10 15

<210> 867

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212> PRT

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<210> 868

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structurally mimics Phenyl alanine

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acid (APPA) which structurally mimics Phenyl alanine

<400> 868

Ala Val Ala Glu Ile Gln Phe Met His Gln Arg Ala Arg Phe Phe

1 5 10 15

<210> 869

<211> 15

<212> PRT

<213> Artificial

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mimics Alanine

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(Aib) which structurally mimics Alanine

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structurally mimics Phenyl alanine

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<222> (3)..(3)

<223> Modified residue at this position is alpha-amino-isobutyric acid

(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is
alpha-methyl-2,6-difluorophenylalanine (alpha-Me-2,6F-Phe) which
structurally mimics Phenyl alanine

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<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle) which
structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

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alpha-methyl-2,6-difluorophenylalanine (alpha-Me-2,6F-Phe) which
structurally mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (12)..(12)

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(Aib) which structurally mimics Alanine

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<222> (14)..(14)

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2'-Ethyl-4'-methoxy-biphenylalanine (Bip(OMe)) which structurally
mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic
acid (APPA) which structurally mimics Phenyl alanine

<400> 883

Ala Val Ala Glu Ile Gln Phe Met His Gln Phe Ala Arg Phe Phe

1 5 10 15

<210> 884

<211> 15

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

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<223> Modified residue at this position is alpha-amino-isobutyric acid
(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

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(Aib) which structurally mimics Alanine

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<222> (7)..(7)

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structurally mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle) which
structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

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alpha-methyl-2,6-difluorophenylalanine (alpha-Me-2,6F-Phe) which

structurally mimics Phenyl alanine

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<222> (12)..(12)

<223> Modified residue at this position is alpha-amino-isobutyric acid
(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is Citrulline (Cit) which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

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mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic
acid (APPA) which structurally mimics Phenyl alanine

<400> 884

Ala Val Ala Glu Ile Gln Phe Met His Gln Phe Ala Arg Phe Phe

1 5 10 15

<210> 885

<211> 15

<212> PRT

<213> Artificial

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<220><221> MISC_FEATURE

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mimics Alanine

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<222> (3)..(3)

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(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

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structurally mimics Phenyl alanine

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<223> Modified residue at this position is Norleucine (Nle) which

structurally mimics Methionine

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structurally mimics Phenyl alanine

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(Aib) which structurally mimics Alanine

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structurally mimics Arginine

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mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic
acid (APPA) which structurally mimics Phenyl alanine

<400> 885

Ala Val Ala Glu Ile Gln Phe Met His Gln Phe Ala Arg Phe Phe

1 5 10 15

<210> 886

<211> 15

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

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(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

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(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

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structurally mimics Phenyl alanine

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<222> (8)..(8)

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structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

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structurally mimics Phenyl alanine

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(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (13)..(13)

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(Aib) which structurally mimics Alanine

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2'-Ethyl-4'-methoxy-biphenylalanine (Bip(OMe)) which structurally

mimics Phenyl alanine

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<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic acid (APPA) which structurally mimics Phenyl alanine

<400> 886

Ala Val Ala Glu Ile Gln Phe Met His Gln Phe Ala Ala Phe Phe

1	5	10	15

<210> 887

<211> 15

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

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<223> Modified residue at this position is 1-amino-cyclopentanecarboxylic acid (AC5C) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino-isobutyric acid (Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (7)..(7)

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<222> (8)..(8)

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<220><221> MISC_FEATURE

<222> (11)..(11)

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structurally mimics Phenyl alanine

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(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

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structurally mimics Phenyl alanine

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<222> (14)..(14)

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2'-Ethyl-4'-methoxy-biphenylalanine (Bip(OMe)) which structurally
mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic
acid (APPA) which structurally mimics Phenyl alanine

<400> 887

Ala Val Ala Glu Ile Gln Phe Met His Gln Phe Ala Ala Phe Phe

1 5 10 15

<210> 888

<211> 15

<212> PRT

<213> Artificial

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(Aib) which structurally mimics Alanine

<220><221

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structurally mimics Phenyl alanine

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structurally mimics Methionine

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structurally mimics Phenyl alanine

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(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

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alpha-methyl-2,6-difluorophenylalanine (alpha-Me-2,6F-Phe) which

structurally mimics Phenyl alanine

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mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic acid (APPA) which structurally mimics Phenyl alanine

<400> 888

Ala Val Ala Glu Ile Gln Phe Met His Gln Phe Ala Phe Phe Phe

1 5 10 15

<210> 889

<211> 15

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

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<223> Modified residue at this position is 1-amino-cyclopentanecarboxylic acid (AC5C) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

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<220><221> MISC_FEATURE

<222> (7)..(7)

<223> Modified residue at this position is alpha-methyl-2,6-difluorophenylalanine (alpha-Me-2,6F-Phe) which structurally mimics Phenyl alanine

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<222> (8)..(8)

<223> Modified residue at this position is Norleucine (Nle) which structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

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alpha-methyl-2,6-difluorophenylalanine (alpha-Me-2,6F-Phe) which structurally mimics Phenyl alanine

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<222> (12)..(12)

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<220><221> MISC_FEATURE

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mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic acid (APPA) which structurally mimics Phenyl alanine

<400> 889

Ala Val Ala Glu Ile Gln Phe Met His Gln Phe Ala Phe Phe Phe

1 5 10 15

<210> 890

<211> 15

<212> PRT

<213> Artificial

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<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino-isobutyric acid
(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (11)..(11)

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structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

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223> Modified residue at this position is alpha-Me-Bip(OMe) which
structurally mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic
acid (APPA) which structurally mimics Phenyl alanine

<400> 890

Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Lys Ala Phe

1 5 10 15

<210> 891

<211> 15

<212> PRT

<213> Artificial

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(Aib) which structurally mimics Alanine

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(Aib) which structurally mimics Alanine

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(Aib) which structurally mimics Alanine

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structurally mimics Arginine

<220><221> MISC_FEATURE

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structurally mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic
acid (APPA) which structurally mimics Phenyl alanine

<400> 891

Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Lys Ala Phe

1	5	10	15

<210> 892

<211> 16

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

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(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (4)..(4)

<223> Modified residue at this position is alpha-amino-isobutyric acid
(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (12)..(12)

<223> Modified residue at this position is Homoarginine (Har) which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is alpha-Me-Bip(OMe) which structurally mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (16)..(16)

<223> Modified residue at this position is alpha-Me-APPA which structurally mimics Phenyl alanine

<400> 892

Val Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Lys Phe Phe

1 5 10 15

<210> 893

<211> 16

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

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<220><221> MISC_FEATURE

<222> (4)..(4)

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<220><221> MISC_FEATURE

<222> (9)..(9)

<223> Modified residue at this position is Norleucine (Nle) which structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (12)..(12)

<223> Modified residue at this position is Homoarginine (Har) which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is alpha-Me-Bip(OMe) which structurally mimics Phenyl alanine

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<222> (16)..(16)

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<400> 893

Val Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Lys Phe Phe

1 5 10 15

<210> 894

<211> 16

<212> PRT

<213> Artificial

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<222> (1)..(1)

<223> Modified residue at this position is alpha-Me-V which structurally mimics Valine

<220><221> MISC_FEATURE

<222> (2)..(2)

<223> Modified residue at this position is 1-amino-cyclopentanecarboxylic acid (AC5C) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (4)..(4)

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<220><221> MISC_FEATURE

<222> (12)..(12)

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<220

><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is alpha-Me-Bip(OMe) which structurally mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (16)..(16)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic acid (APPA) which structurally mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (16)..(16)

<223> Modified residue at this position is alpha-Me-APPA which structurally mimics Phenyl alanine

<400> 894

Val Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Lys Phe Phe

1 5 10 15

<210> 895

<211> 16

<212> PRT

<213> Artificial

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<220><221> MISC_FEATURE

<222> (2)..(2)

<223> Modified residue at this position is 1-amino-cyclopentanecarboxylic acid (AC5C) which structurally mimics Alanine

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(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

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structurally mimics Methionine

<220><221> MISC_FEATURE

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structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (15)..(15)

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structurally mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (16)..(16)

<223> Modified residue at this position is alpha-Me-APPA which
structurally mimics Phenyl alanine

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Val Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Lys Phe Phe

1 5 10 15

<210> 896

<211> 16

<212> PRT

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mimics Alanine

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(Aib) which structurally mimics Alanine

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<223> Modified residue at this position is Norleucine (Nle) which
structurally mimics Methionine

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structurally mimics Arginine

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<222> (15)..(15)

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structurally mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (16)..(16)

<223> Modified residue at this position is alpha-Me-APPA which

structurally mimics Phenyl alanine

<400> 896

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1 5 10 15

<210> 897

<211> 16

<212> PRT

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223> Modified residue at this position is 1-amino-cyclopentanecarboxylic acid (AC5C) which structurally mimics Alanine

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<223> Modified residue at this position is Norleucine (Nle) which structurally mimics Methionine

<220><221> MISC_FEATURE

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<220><221> MISC_FEATURE

<222> (16)..(16)

<223> Modified residue at this position is alpha-Me-APPA which structurally mimics Phenyl alanine

<400> 897

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1 5 10 15

<210> 898

<211> 15

<212> PRT

<213> Artificial

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structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

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structurally mimics Arginine

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<222> (14)..(14)

<223> Modified residue at this position is alpha-Me-Bip(OMe) which
structurally mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic
acid (APPA) which structurally mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic
acid (APPA) which structurally mimics Phenyl alanine

<400> 898

Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Arg Ala Phe

1	5	10	15

<210> 899

<211> 15

<212> PRT

<213> Artificial

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structurally mimics Methionine

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structurally mimics Arginine

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structurally mimics Arginine

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mimics Phenyl alanine

<220><221> MISC_FEATURE

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<223> Modified residue at this position is 2-amino-5-phenylpentanoic acid (APPA) which structurally mimics Phenyl alanine

<400> 899

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1 5 10 15

<210> 900

<211> 15

<212> PRT

<213> Artificial

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structurally mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino-isobutyric acid (Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har) which structurally mimics Arginine

<220><221> MISC_FEATURE

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1 5 10 15

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2'-Ethyl-4'-methoxy-biphenylalanine (Bip(OMe)) which structurally
mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is alpha-Me-APPA which
structurally mimics Phenyl alanine

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1 5 10 15

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<211> 16

<212> PRT

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(Aib) which structurally mimics Alanine

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structurally mimics Arginine

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structurally mimics Arginine

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<222> (16)..(16)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic acid (APPA) which structurally mimics Phenyl alanine

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1 5 10 15

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<211> 16

<212> PRT

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<222> (15)..(15)

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<222> (16)..(16)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic acid (APPA) which structurally mimics Phenyl alanine

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1 5 10 15

<210> 904

<211> 16

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<222> (16)..(16)

<223> Modified residue at this position is alpha-Me-APPA which structurally mimics Phenyl alanine

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1 5 10 15

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<220><221> MISC_FEATURE

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<223> Modified residue at this position is Norleucine (Nle) which structurally mimics Methionine

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<222> (12)..(12)

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<220><221> MISC_FEATURE

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<220><221> MISC_FEATURE

<222> (16)..(16)

<223> Modified residue at this position is alpha-Me-APPA which structurally mimics Phenyl alanine

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1 5 10 15

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<220><221> MISC_FEATURE

<222> (2)..(2)

<223> Modified residue at this position is 1-amino-cyclopentanecarboxylic acid (AC5C) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (4)..(4)

<223> Modified residue at this position is alpha-amino-isobutyric acid

(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (12)..(12)

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mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (16)..(16)

<223> Modified residue at this position is alpha-Me-APPA which structurally mimics Phenyl alanine

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1 5 10 15

<210> 907

<211> 16

<212> PRT

<213> Artificial

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1-amino-cyclopentanecarboxylic acid (AC5C) which structurally
mimics Alanine

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(Aib) which structurally mimics Alanine

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<222> (9)..(9)

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structurally mimics Methionine

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structurally mimics Arginine

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structurally mimics Arginine

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2'-Ethyl-4'-methoxy-biphenylalanine (Bip(OMe)) which structurally

mimics Phenyl alanine

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<222> (16)..(16)

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structurally mimics Phenyl alanine

<400> 907

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1

5

10

15

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mimics Alanine

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(Aib) which structurally mimics Alanine

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structurally mimics Arginine

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structurally mimics Arginine

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mimics Phenyl alanine

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<222> (16)..(16)

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1 5 10 15

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1-amino-cyclopentanecarboxylic acid (AC5C) which structurally
mimics Alanine

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structurally mimics Methionine

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structurally mimics Arginine

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<222> (16)..(16)

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1 5 10 15

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<211> 15

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(Aib) which structurally mimics Alanine

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1 5 10 15

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<211> 15

<212> PRT

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structurally mimics Methionine

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structurally mimics Arginine

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structurally mimics Arginine

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structurally mimics Phenyl alanine.

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acid (APPA) which structurally mimics Phenyl alanine

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1 5 10 15

<210> 912

<211> 15

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(Aib) which structurally mimics Alanine

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structurally mimics Methionine

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structurally mimics Arginine

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structurally mimics Arginine

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2'-Ethyl-4'-methoxy-biphenylalanine (Bip(OMe)) which structurally
mimics Phenyl alanine

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<222> (15)..(15)

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structurally mimics Phenyl alanine

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1 5 10 15

<210> 913

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(Aib) which structurally mimics Alanine

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(Aib) which structurally mimics Alanine

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structurally mimics Methionine

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structurally mimics Arginine

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structurally mimics Arginine

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2'-Ethyl-4'-methoxy-biphenylalanine (Bip(OMe)) which structurally mimics Phenyl alanine

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structurally mimics Phenyl alanine

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1 5 10 15

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(Aib) which structurally mimics Alanine

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(Aib) which structurally mimics Alanine

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structurally mimics Methionine

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structurally mimics Arginine

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structurally mimics Arginine

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structurally mimics Phenyl alanine.

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1 5 10 15

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structurally mimics Methionine

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structurally mimics Phenyl alanine.

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1 5 10 15

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structurally mimics Arginine

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structurally mimics Arginine

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(Aib) which structurally mimics Alanine

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<211> 16

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<213> Artificial

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<220><221> MISC_FEATURE

<222> (2)..(2)

<223> Modified residue at this position is 1-amino-cyclopentanecarboxylic acid (AC5C) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (4)..(4)

<223> Modified residue at this position is alpha-amino-isobutyric acid (Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (9)..(9)

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Modified residue at this position is alpha-MeNle which

structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (12)..(12)

<223> Modified residue at this position is Homoarginine (Har) which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is Homoarginine (Har) which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is alpha-Me-Bip(OMe) which structurally mimics Phenyl alanine.

<220><221> MISC_FEATURE

<222> (16)..(16)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic acid (APPA) which structurally mimics Phenyl alanine

<400> 918

Val Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Arg Ala Phe

1 5 10 15

<210> 919

<211> 16

<212> PRT

<213> Artificial

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<223> Modified residue at this position is 1-amino-cyclopentanecarboxylic acid (AC5C) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (4)..(4)

<223> Modified residue at this position is alpha-amino-isobutyric acid

(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (9)..(9)

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<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2'-Ethyl-4'-methoxy-biphenylalanine (Bip(OMe)) which structurally mimics Phenyl alanine

<220><221> MISC_FEATURE

<222>

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<223> Modified residue at this position is alpha-Me-APPA which structurally mimics Phenyl alanine

<400> 919

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1 5 10 15

<210> 920

<211> 16

<212> PRT

<213> Artificial

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(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (4)..(4)

<223> Modified residue at this position is alpha-amino-isobutyric acid

(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (9)..(9)

<223> Modified residue at this position is alpha-Me-M which

structurally mimics Methionine

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<222> (12)..(12)

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structurally mimics Arginine

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structurally mimics Arginine

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<222> (15)..(15)

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2'-Ethyl-4'-methoxy-biphenylalanine (Bip(OMe)) which structurally
mimics Phenyl alanine

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<222> (16)..(16)

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structurally mimics Phenyl alanine

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400> 920

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1 5 10 15

<210> 921

<211> 16

<212> PRT

<213> Artificial

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(Aib) which structurally mimics Alanine

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<223> Modified residue at this position is alpha-amino-isobutyric acid

(Aib) which structurally mimics Alanine

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<222> (9)..(9)

<223> Modified residue at this position is alpha-MeNle which
structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (12)..(12)

<223> Modified residue at this position is Homoarginine (Har) which
structurally mimics Arginine

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<222> (14)..(14)

<223> Modified residue at this position is Homoarginine (Har) which
structurally mimics Arginine

<220>

><221> MISC_FEATURE

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mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (16)..(16)

<223> Modified residue at this position is alpha-Me-APPA which
structurally mimics Phenyl alanine

<400> 921

Val Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Arg Phe Phe

1 5 10 15

<210> 922

<211

> 16

<212> PRT

<213> Artificial

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<223> Modified residue at this position is 1-amino cyclopropane
carboxylic acid (AC3C) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (4)..(4)

<223> Modified residue at this position is alpha-amino-isobutyric acid
(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (9)..(9)

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223> Modified residue at this position is alpha-Me-M which
structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (12)..(12)

<223> Modified residue at this position is Homoarginine (Har) which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is Homoarginine (Har) which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is
2'-Ethyl-4'-methoxy-biphenylalanine (Bip(OMe)) which structurally
mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (16)..(16)

<223> Modified residue at this position is alpha-Me-APPA which structurally mimics Phenyl alanine

<400> 922

Val Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Arg Phe Phe

1 5 10 15

<210> 923

<211> 16

<212> PRT

<213> Artificial

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<220><221> MISC_FEATURE

<222> (4)..(4)

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<222> (9)..(9)

<223> Modified residue at this position is alpha-MeNle which structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (12)..(12)

<223> Modified residue at this position is Homoarginine (Har) which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is Homoarginine (Har) which structurally mimics Arginine

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<222> (15)..(15)

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2'-Ethyl-4'-methoxy-biphenylalanine (Bip(OMe)) which structurally
mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (16)..(16)

<223> Modified residue at this position is alpha-Me-APPA which
structurally mimics Phenyl alanine

<400> 923

Val Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Arg Phe Phe

1 5 10 15

<210> 924

<211> 16

<212> PRT

<213> Artificial

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<220><221> MISC_FEATURE

<222> (2)..(2)

<223> Modified residue at this position is

1-amino-cyclopentanecarboxylic acid (AC5C) which structurally
mimics Alanine

<220><221> MISC_FEATURE

<222> (4)..(4)

<223> Modified residue at this position is alpha-amino-isobutyric acid

(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (9)..(9)

<223> Modified residue at this position is alpha-Me-M which

structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (12)..(12)

<223> Modified residue at this position is Homoarginine (Har) which

structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is Homoarginine (Har) which

structurally mimics Arginine

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<222> (15)..(15)

<223> Modified residue at this position is

2'-Ethyl-4'-methoxy-biphenylalanine (Bip(OMe)) which structurally

mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (16)..(16)

<223> Modified residue at this position is alpha-Me-APPA which

structurally mimics Phenyl alanine

<400> 924

Val Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Arg Phe Phe

1 5 10 15

<210> 925

<211> 16

<212> PRT

<213> Artificial

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1-amino-cyclopentanecarboxylic acid (AC5C) which structurally

mimics Alanine

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<222> (4)..(4)

<223> Modified residue at this position is alpha-amino-isobutyric acid

(Aib) which structurally mimics Alanine

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<222> (9)..(9)

<223> Modified residue at this position is alpha-MeNle which structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (12)..(12)

<223> Modified residue at this position is Homoarginine (Har) which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is Homoarginine (Har) which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is

2'-Ethyl-4'-methoxy-biphenylalanine (Bip(OMe)) which structurally mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (16)..(16)

<223> Modified residue at this position is alpha-Me-APPA which structurally mimics Phenyl alanine

<400> 925

Val Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Arg Phe Phe

1 5 10 15

<210> 926

<211> 16

<212> PRT

<213> Artificial

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<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is alpha-Me-V which structurally mimics Valine

<220><221> MISC_FEATURE

<222> (2)..(2)

<223> Modified residue at this position is
1-amino-cyclopentanecarboxylic acid (AC5C) which structurally
mimics Alanine

<220><221> MISC_FEATURE

<222> (4)..(4)

<223> Modified residue at this position is alpha-amino-isobutyric acid
(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (9)..(9)

<223> Modified residue at this position is alpha-MeNle which
structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (12)..(12)

<223> Modified residue at this position is Homoarginine (Har) which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is Homoarginine (Har) which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is
2'-Ethyl-4'-methoxy-biphenylalanine (Bip(OMe)) which structurally
mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (16)..(16)

<223> Modified residue at this position is alpha-Me-APPA which
structurally mimics Phenyl alanine

<400> 926

Val Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Arg Phe Phe

1 5 10 15

<210> 927

<211> 16

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is alpha-Me-V which
structurally mimics Valine

<220><221> MISC_FEATURE

<222> (2)..(2)

<223> Modified residue at this position is
1-amino-cyclopentanecarboxylic acid (AC5C) which structurally
mimics Alanine

<220><221> MISC_FEATURE

<222> (4)..(4)

<223> Modified residue at this position is alpha-amino-isobutyric acid
(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (9)..(9)

<223> Modified residue at this position is alpha-MeNle which
structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (12)..(12)

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structurally mimics Arginine

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<222> (14)..(14)

<223> Modified residue at this position is Homoarginine (Har) which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is

2'-Ethyl-4'-methoxy-biphenylalanine (Bip(OMe)) which structurally

mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (16)..(16)

<223> Modified residue at this position is alpha-Me-APPA which structurally mimics Phenyl alanine

<400> 927

Val Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Arg Phe Phe

1 5 10 15

<210> 928

<211> 16

<212> PRT

<213> Artificial

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<220><221> MISC_FEATURE

<222> (2)..(2)

<223> Modified residue at this position is 1-amino-cyclopentanecarboxylic acid (AC5C) which structurally mimics Alanine

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<223> Modified residue at this position is alpha-amino-isobutyric acid (Aib) which structurally mimics Alanine

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<222> (9)..(9)

<223> Modified residue at this position is alpha-Me-M which structurally mimics Methionine

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<222> (12)..(12)

<223> Modified residue at this position is Homoarginine (Har) which

structurally mimics Arginine

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<222> (14)..(14)

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<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is

2'-Ethyl-4'-methoxy-biphenylalanine (Bip(OMe)) which structurally mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (16)..(16)

<223> Modified residue at this position is alpha-Me-APPA which structurally mimics Phenyl alanine

<400> 928

Val Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Arg Phe Phe

1	5	10	15

<210> 929

<211> 16

<212> PRT

<213> Artificial

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<223> Modified residue at this position is NMe-V which structurally mimics Valine

<220><221> MISC_FEATURE

<222> (2)..(2)

<223> Modified residue at this position is

1-amino-cyclopentanecarboxylic acid (AC5C) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (4)..(4)

<223> Modified residue at this position is alpha-amino-isobutyric acid
(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (9)..(9)

<223> Modified residue at this position is alpha-MeNle which
structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (12)..(12)

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structurally mimics Arginine

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<222> (14)..(14)

<223> Modified residue at this position is Homoarginine (Har) which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is

2'-Ethyl-4'-methoxy-biphenylalanine (Bip(OMe)) which structurally
mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (16)..(16)

<223> Modified residue at this position is alpha-Me-APPA which
structurally mimics Phenyl alanine

<400> 929

Val Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Arg Phe Phe

1 5 10 15

<210> 930

<211> 15

<212> PRT

<213> Artificial

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(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino-isobutyric acid
(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is alpha-Me-M which
structurally mimics Methionine

<220><221> MISC_FEATURE

<222>

> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har) which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is Homoarginine (Har) which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is
alpha-methyl-2,6-difluorophenylalanine (alpha-Me-2,6F-Phe) which
structurally mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic
acid (APPA) which structurally mimics Phenyl alanine

<400> 930

Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Arg Phe Phe

1 5 10 15

<210> 931

<211> 15

<212> PRT

<213> Artificial

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<223> Modified residue at this position is alpha-amino-isobutyric acid

(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino-isobutyric acid

(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is alpha-MeNle which
structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har) which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

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structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

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structurally mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic
acid (APPA) which structurally mimics Phenyl alanine

<400> 931

Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Arg Phe Phe

1 5 10 15

<210> 932

<211> 16

<212> PRT

<213> Artificial

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<220><221> MISC_FEATURE

<222> (2)..(2)

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(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (4)..(4)

<223> Modified residue at this position is alpha-amino-isobutyric acid

(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (9)..(9)

<223> Modified residue at this position is alpha-Me-M which

structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (12)..(12)

<223> Modified residue at this position is Homoarginine (Har) which

structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

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structurally mimics Arginine

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><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is

alpha-methyl-2,6-difluorophenylalanine (alpha-Me-2,6F-Phe) which

structurally mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (16)..(16)

<223> Modified residue at this position is alpha-Me-APPA which structurally mimics Phenyl alanine

<400> 932

Val Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Arg Phe Phe

1 5 10 15

<210

> 933

<211> 16

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

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<223> Modified residue at this position is alpha-amino-isobutyric acid (Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (4)..(4)

<223> Modified residue at this position is alpha-amino-isobutyric acid (Aib) which structurally mimics Alanine

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<222> (9)..(9)

<223> Modified residue at this position is alpha-MeNle which structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (12)..(12)

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<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is Homoarginine (Har) which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is
alpha-methyl-2,6-difluorophenylalanine (alpha-Me-2,6F-Phe) which

structurally mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (16)..(16)

<223> Modified residue at this position is alpha-Me-APPA which
structurally mimics Phenyl alanine

<400> 933

Val Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Arg Phe Phe

1 5 10 15

<210> 934

<211> 16

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

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222> (2)..(2)

<223> Modified residue at this position is 1-amino cyclopropane
carboxylic acid (AC3C) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (4)..(4)

<223> Modified residue at this position is alpha-amino-isobutyric acid
(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (9)..(9)

<223> Modified residue at this position is alpha-Me-M which
structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (12)..(12)

<223> Modified residue at this position is Homoarginine (Har) which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is Homoarginine (Har) which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is alpha-methyl-2,6-difluorophenylalanine (alpha-Me-2,6F-Phe) which structurally mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (16)..(16)

<223> Modified residue at this position is alpha-Me-APPA which structurally mimics Phenyl alanine

<400> 934

Val Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Arg Phe Phe

1 5 10 15

<210> 935

<211> 16

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (2)..(2)

<223> Modified residue at this position is 1-amino cyclopropane carboxylic acid (AC3C) which structurally mimics Alanine

<220><221> MISC_FEATURE

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<223> Modified residue at this position is alpha-amino-isobutyric acid (Aib) which structurally mimics Alanine

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<222> (9)..(9)

<223> Modified residue at this position is alpha-MeNle which structurally mimics Methionine

<220><221> MISC_FEATURE

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<222> (14)..(14)

<223> Modified residue at this position is Homoarginine (Har) which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is alpha-methyl-2,6-difluorophenylalanine (alpha-Me-2,6F-Phe) which structurally mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (16)..(16)

<223> Modified residue at this position is alpha-Me-APPA which structurally mimics Phenyl alanine

<400> 935

Val Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Arg Phe Phe

1 5 10 15

<210> 936

<211> 16

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (2)..(2)

<223> Modified residue at this position is l-amino-cyclopentanecarboxylic acid (AC5C) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (4)..(4)

<223> Modified residue at this position is alpha-amino-isobutyric acid

(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (9)..(9)

<223> Modified residue at this position is alpha-Me-M which structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (12)..(12)

<223> Modified residue at this position is Homoarginine (Har) which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is Homoarginine (Har) which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is

alpha-methyl-2,6-difluorophenylalanine (alpha-Me-2,6F-Phe) which structurally mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (16)..(16)

<223> Modified residue at this position is alpha-Me-APPA which structurally mimics Phenyl alanine

<400> 936

Val Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Arg Phe Phe

1 5 10 15

<210> 937

<211> 16

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (2)..(2)

<223> Modified residue at this position is
1-amino-cyclopentanecarboxylic acid (AC5C) which structurally
mimics Alanine

<220><221> MISC_FEATURE

<222> (4)..(4)

<223> Modified residue at this position is alpha-amino-isobutyric acid
(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (9)..(9)

<223> Modified residue at this position is alpha-MeNle which
structurally mimics Methionine

<220><221>

MISC_FEATURE

<222> (12)..(12)

<223> Modified residue at this position is Homoarginine (Har) which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is Homoarginine (Har) which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is
alpha-methyl-2,6-difluorophenylalanine (alpha-Me-2,6F-Phe) which
structurally mimics Phenyl alanine

<

220><221> MISC_FEATURE

<222> (16)..(16)

<223> Modified residue at this position is alpha-Me-APPA which
structurally mimics Phenyl alanine

<400> 937

Val Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Arg Phe Phe

1 5 10 15

<210> 938

<211> 16

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is alpha-Me-V which

structurally mimics Valine

<220><221> MISC_FEATURE

<222> (2)..(2)

<223> Modified residue at this position is

1-amino-cyclopentanecarboxylic acid (AC5C) which structurally

mimics Alanine

<220><221> MISC_FEATURE

<222> (4)..(4)

<223> Modified residue at this position is alpha-amino-isobutyric acid

(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (9)..(9)

<223> Modified residue at this position is alpha-Me-M which

structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (12)..(12)

<223> Modified residue at this position is Homoarginine (Har) which

structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is Homoarginine (Har) which

structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is

alpha-methyl-2,6-difluorophenylalanine (alpha-Me-2,6F-Phe) which

structurally mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (16)..(16)

<223> Modified residue at this position is alpha-Me-APPA which
structurally mimics Phenyl alanine

<400> 938

Val Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Arg Phe Phe

1 5 10 15

<210> 939

<211> 16

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is alpha-Me-V which

structurally mimics Valine

<220><221> MISC_FEATURE

<222> (2)..(2)

<223> Modified residue at this position is
1-amino-cyclopentanecarboxylic acid (AC5C) which structurally
mimics Alanine

<220><221> MISC_FEATURE

<222> (4)..(4)

<223> Modified residue at this position is alpha-amino-isobutyric acid
(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (9)..(9)

<223> Modified residue at this position is alpha-MeNle which
structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (12)..(12)

<223> Modified residue at this position is Homoarginine (Har) which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is Homoarginine (Har) which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is alpha-methyl-2,6-difluorophenylalanine (alpha-Me-2,6F-Phe) which structurally mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (16)..(16)

<223> Modified residue at this position is alpha-Me-APPA which structurally mimics Phenyl alanine

<400> 939

Val Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Arg Phe Phe

1 5 10 15

<210> 940

<211> 16

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is NMe-V which structurally

mimics Valine

<220><221> MISC_FEATURE

<222> (2)..(2)

<223> Modified residue at this position is 1-amino-cyclopentanecarboxylic acid (AC5C) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (4)..(4)

<223> Modified residue at this position is alpha-amino-isobutyric acid
(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (9)..(9)

<223> Modified residue at this position is alpha-Me-M which
structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (12)..(12)

<223> Modified residue at this position is Homoarginine (Har) which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is Homoarginine (Har) which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is
alpha-methyl-2,6-difluorophenylalanine (alpha-Me-2,6F-Phe) which
structurally mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (16)..(16)

<223> Modified residue at this position is alpha-Me-APPA which
structurally mimics Phenyl alanine

<400> 940

Val Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Arg Phe Phe

1 5 10 15

<210> 941

<211> 16

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is NMe-V which structurally

mimics Valine

<220><221> MISC_FEATURE

<222> (2)..(2)

<223> Modified residue at this position is

1-amino-cyclopentanecarboxylic acid (AC5C) which structurally

mimics Alanine

<220><221> MISC_FEATURE

<222> (4)..(4)

<223> Modified residue at this position is alpha-amino-isobutyric acid

(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (9)..(9)

<223> Modified residue at this position is alpha-MeNle which

structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (12)..(12)

<223> Modified residue at this position is Homoarginine (Har) which

structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is Homoarginine (Har) which

structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is

alpha-methyl-2,6-difluorophenylalanine (alpha-Me-2,6F-Phe) which

structurally mimics Phenyl alanine

<220><221> MISC_FEATURE

<222> (16)..(16)

<223> Modified residue at this position is alpha-Me-APPA which

structurally mimics Phenyl alanine

<400> 941

Val Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Arg Phe Phe

1 5 10 15

<210> 942

<211> 15

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is alpha-amino-isobutyric acid

(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino-isobutyric acid

(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is alpha-Me-M which

structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har) which

structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is Homoarginine (Har) which

structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is alpha-Me-Trp mimics Trp

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic acid (APPA) which structurally mimics Phenyl alanine

<400> 942

Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Arg Trp Phe

1 5 10 15

<210> 943

<211> 15

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is alpha-amino-isobutyric acid (Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino-isobutyric acid (Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is alpha-MeNle which structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har) which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is Homoarginine (Har) which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223>

Modified residue at this position is alpha-Me-Trp mimics Trp

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic acid (APPA) which structurally mimics Phenyl alanine

<400> 943

Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Arg Trp Phe

1 5 10 15

<210> 944

<211> 15

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is 1-amino cyclopropane carboxylic acid (AC3C) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino-isobutyric acid (Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is alpha-Me-M which structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har) which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is Homoarginine (Har) which

structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is alpha-Me-Trp mimics Trp

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic

acid (APPA) which structurally mimics Phenyl alanine

<400> 944

Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Arg Trp Phe

1 5 10 15

<210> 945

<211> 15

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is 1-amino cyclopropane
carboxylic acid (AC3C) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino-isobutyric acid
(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is alpha-Me-M which
structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har) which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

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<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is alpha-Me-Trp mimics Trp

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic acid (APPA) which structurally mimics Phenyl alanine

<400> 945

Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Arg Trp Phe

1 5 10 15

<210> 946

<211> 15

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is 1-amino-cyclopentanecarboxylic acid (AC5C) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino-isobutyric acid (Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is alpha-Me-M which structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har) which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is Homoarginine (Har) which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is alpha-Me-Trp mimics Trp

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic acid (APPA) which structurally mimics Phenyl alanine

<400> 946

Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Arg Trp Phe

1 5 10 15

<210> 947

<211> 15

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is

1-amino-cyclopentanecarboxylic acid (AC5C) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino-isobutyric acid (Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is alpha-MeNle which
structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har) which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is Homoarginine (Har) which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is alpha-Me-Trp mimics Trp

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic
acid (APPA) which structurally mimics Phenyl alanine

<400> 947

Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Arg Trp Phe

1 5 10 15

<210> 948

<211> 15

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is alpha-amino-isobutyric acid
(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (3)..(3)

<223> Modified residue at this position is alpha-amino-isobutyric acid

(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (8)..(8)

<223> Modified residue at this position is alpha-Me-M which structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (11)..(11)

<223> Modified residue at this position is Homoarginine (Har) which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (13)..(13)

<223> Modified residue at this position is Homoarginine (Har) which structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is alpha-Me-Trp mimics Trp

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is 2-amino-5-phenylpentanoic acid (APPA) which structurally mimics Phenyl alanine

<400> 948

Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Arg Trp Phe

1 5 10 15

<210> 949

<211> 15

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is alpha-amino-isobutyric acid

(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE
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 (Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE
 <222> (8)..(8)
 <223> Modified residue at this position is alpha-MeNle which
 structurally mimics Methionine

<220><221> MISC_FEATURE
 <222> (11)..(11)
 <223> Modified residue at this position is Homoarginine (Har) which
 structurally mimics Arginine

<220><221> MISC_FEATURE
 <222> (13)..(13)
 <223> Modified residue at this position is Homoarginine (Har) which
 structurally mimics Arginine

<220><221> MISC_FEATURE
 <222> (14)..(14)
 <223> Modified residue at this position is alpha-Me-Trp mimics Trp

<220><221> MISC_FEATURE
 <222> (15)..(15)
 <223> Modified residue at this position is 2-amino-5-phenylpentanoic
 acid (APPA) which structurally mimics Phenyl alanine

<400> 949

Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Arg Trp Phe

1 5 10 15

<210> 950

<211> 16

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (2)..(2)

<223> Modified residue at this position is 1-amino cyclopropane
carboxylic acid (AC3C) which structurally mimics Alanine
<220><221> MISC_FEATURE
<222> (4)..(4)
<223> Modified residue at this position is alpha-amino-isobutyric acid
(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE
<222> (9)..(9)
<223> Modified residue at this position is alpha-Me-M which
structurally mimics Methionine
<220><221> MISC_FEATURE
<222> (12)..(12)
<223> Modified residue at this position is Homoarginine (Har) which
structurally mimics Arginine
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<222> (14)..(14)
<223> Modified residue at this position is Homoarginine (Har) which
structurally mimics Arginine
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<222> (15)..(15)
<223> Modified residue at this position is alpha-Me-Trp mimics Trp

<220><221> MISC_FEATURE
<222> (16)..(16)
<223> Modified residue at this position is alpha-Me-APPA which
structurally mimics Phenyl alanine

<400> 950

Val Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Arg Trp Phe

1 5 10 15

<210> 951

<211> 16

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (2)..(2)

<223> Modified residue at this position is 1-amino cyclopropane

carboxylic acid (AC3C) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (4)..(4)

<223> Modified residue at this position is alpha-amino-isobutyric acid

(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (9)..(9)

<223> Modified residue at this position is alpha-MeNle which

structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (12)..(12)

<223> Modified residue at this position is Homoarginine (Har) which

structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is Homoarginine (Har) which

structurally mimics Arginine

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<222> (15)..(15)

<223> Modified residue at this position is alpha-Me-Trp mimics Trp

<220><221> MISC_FEATURE

<222> (16)..(16)

<223> Modified residue at this position is alpha-Me-APPA which

structurally mimics Phenyl alanine

<400> 951

Val Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Arg Trp Phe

1

5

10

15

<210> 952

<211> 16

<212> PRT

<213> Artificial

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<220><221> MISC_FEATURE

<222> (2)..(2)

<223> Modified residue at this position is
1-amino-cyclopentanecarboxylic acid (AC5C) which structurally
mimics Alanine

<220><221> MISC_FEATURE

<222> (4)..(4)

<223> Modified residue at this position is alpha-amino-isobutyric acid
(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (9)..(9)

<223> Modified residue at this position is alpha-Me-M which
structurally mimics Methionine

<220><221> MISC_FEATURE

<222> (12)..(12)

<223> Modified residue at this position is Homoarginine (Har) which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (14)..(14)

<223> Modified residue at this position is Homoarginine (Har) which
structurally mimics Arginine

<220><221> MISC_FEATURE

<222> (15)..(15)

<223> Modified residue at this position is alpha-Me-Trp mimics Trp

<220><221> MISC_FEATURE

<222> (16)..(16)

<223> Modified residue at this position is alpha-Me-APPA which
structurally mimics Phenyl alanine

<400> 952

Val Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Arg Trp Phe

1	5	10	15

<210> 953
 <211> 16
 <212> PRT
 <213> Artificial
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 1-amino-cyclopentanecarboxylic acid (AC5C) which structurally
 mimics Alanine
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 <223> Modified residue at this position is alpha-amino-isobutyric acid
 (Aib) which structurally mimics Alanine
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 structurally mimics Methionine
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 structurally mimics Arginine
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 <223> Modified residue at this position is Homoarginine (Har) which
 structurally mimics Arginine
 <220><221> MISC_FEATURE
 <222> (15)..(15)
 <223> Modified residue at this position is alpha-Me-Trp mimics Trp
 <220><221> MISC_FEATURE
 <222> (16)..(16)
 <223> Modified residue at this position is alpha-Me-APPA which

structurally mimics Phenyl alanine

<400> 953

Val Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Arg Trp Phe

1 5 10 15

<210> 954

<211> 16

<212> PRT

<213> Artificial

<220><223> This short-chain peptide was synthetically generated and prepared

<220><221> MISC_FEATURE

<222> (1)..(1)

<223> Modified residue at this position is alpha-Me-V which
structurally mimics Valine

<220><221> MISC_FEATURE

<222> (2)..(2)

<223> Modified residue at this position is
1-amino-cyclopentanecarboxylic acid (AC5C) which structurally
mimics Alanine

<220><221> MISC_FEATURE

<222> (4)..(4)

<223> Modified residue at this position is alpha-amino-isobutyric acid
(Aib) which structurally mimics Alanine

<220><221> MISC_FEATURE

<222> (9)..(9)

<223> Modified residue at this position is alpha-Me-M which
structurally mimics Methionine

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<222> (12)..(12)

<223> Modified residue at this position is Homoarginine (Har) which
structurally mimics Arginine

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<222> (14)..(14)

<223> Modified residue at this position is Homoarginine (Har) which structurally mimics Arginine

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<223> Modified residue at this position is alpha-Me-APPA which structurally mimics Phenyl alanine

<400> 954

Val Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Arg Trp Phe

1 5 10 15

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structurally mimics Methionine

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structurally mimics Arginine

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<222> (14)..(14)

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<222> (16)..(16)

<223> Modified residue at this position is alpha-Me-APPA which
structurally mimics Phenyl alanine

<400> 955

Val Ala Val Ala Glu Ile Gln Leu Met His Gln Arg Ala Arg Trp Phe

1 5 10 15