SEQUENCE LISTING

<110> Eli Lilly and Company

<120> GIPR-Agonist Compounds

<130> X21836

<150> US 62/881,685
<151> 2019-08-01

<160> 126

<170> PatentIn version 3.5

<210> 1
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<212> PRT
<213> Homo sapiens

<220>
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<222> (42)..(42)
<223> AMIDATION

<400> 1

Tyr Ala Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Ala Met Asp Lys
1 5 10 15

Ile His Gln Gln Asp Phe Val Asn Trp Leu Leu Ala Gln Lys Gly Lys
20 25 30

Lys Asn Asp Trp Lys His Asn Ile Thr Gln
35 40

<210> 2
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<213> Homo sapiens

<220>
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<223> AMIDATION

<400> 2

His Ala Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly

1 5 10 15

Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Arg
20 25 30

<210> 3
<211> 29
<212> PRT
<213> Homo sapiens

<400> 3

His Ser Gln Gly Thr Phe Thr Ser Asp Tyr Ser Lys Tyr Leu Asp Ser
1 5 10 15

Arg Arg Ala Gln Asp Phe Val Gln Trp Leu Met Asn Thr
20 25

<210> 4
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> MOD_RES
<222> (1)..(1)
<223> The N-terminus of Xaa at position 1 is modified with Z1, wherein the modification is selected from the group consisting of acetyl and absent.

<220>
<221> VARIANT
<222> (1)..(1)
<223> Xaa at position 1 is Y or D-Tyr

<220>
<221> VARIANT
<222> (2)..(2)
<223> Xaa at position 2 is A, Aib, or D-Ala

<220>
<221> VARIANT
<222> (6)..(6)
<223> Xaa at position 6 is F, alpha-methyl-Phe, Iva, L, alpha-methyl-Leu, or alpha-methyl-Phe(2F)

<220>
<221> VARIANT
<222> (13)..(13)
<223> Xaa at position 13 is alpha-methyl-Leu, A, L or Aib

<220>
<221> VARIANT
<222> (16)..(16)
<223> Xaa at position 16 is K, E, or Orn

<220>
<221> VARIANT
<222> (17)..(17)
<223> Xaa at position 17 is I or K

<220>
<221> MOD_RES
<222> (17)..(17)
<223> When Xaa at position 17 is K, then K is chemically modified by conjugation of the epsilon-amino group of the Lys side chain with K(2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-gamma-Glu-CO-(CH2)q-CO2H, wherein q=16 or 18

<220>
<221> MISC_FEATURE
<222> (17)..(26)
<223> wherein one and only one selected from the group consisting of X17 and X26 is K(2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)q-CO2H

<220>
<221> VARIANT
<222> (18)..(18)
<223> Xaa at position 18 is H, A or R

<220>
<221> VARIANT
<222> (20)..(20)
<223> Xaa at position 20 is Aib or Q

<220>
<221> VARIANT
<222> (21)..(21)
<223> Xaa at position 21 is D or E

<220>
<221> VARIANT
<222> (22)..(22)
<223> Xaa at position 22 is F or alpha-methyl-Phe

<220>
<221> VARIANT
<222> (24)..(24)

<223> Xaa at position 24 is E, N, Q or D-Glu

<220>
<221> VARIANT
<222> (25)..(25)
<223> Xaa at position 25 is Y, 4-Pal, W or alpha-methyl-Tyr

<220>
<221> VARIANT
<222> (26)..(26)
<223> Xaa at position 26 is K or L

<220>
<221> MOD_RES
<222> (26)..(26)
<223> When Xaa at position 26 is K, then K is chemically modified by conjugation of the epsilon-amino group of the Lys side chain with K(2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-gamma-Glu-CO-(CH2)q-CO2H, wherein q=16 or 18

<220>
<221> VARIANT
<222> (28)..(28)
<223> Xaa at position 28 is E or A

<220>
<221> VARIANT
<222> (29)..(29)
<223> Xaa at position 29 is A, G, Q or T

<220>
<221> MOD_RES
<222> (39)..(39)
<223> The C-terminus of Xaa at position 39 is modified with Z2, wherein Z2 is absent or the modification is amidation.

<400> 4

Xaa Xaa Glu Gly Thr Xaa Ile Ser Asp Tyr Ser Ile Xaa Leu Asp Xaa
1 5 10 15

Xaa Xaa Gln Xaa Xaa Xaa Val Xaa Xaa Xaa Leu Xaa Xaa Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 5
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<220>
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<220>
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<222> (2)..(2)
<223> Xaa at position 2 is D-Ala

<220>
<221> MOD_RES
<222> (17)..(17)
<223> Lys at position 17 is chemically modified by conjugation of the
       epsilon-amino group of the Lys side chain with
       (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)18-CO
       2H

<220>
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<222> (20)..(20)
<223> Xaa at position 20 is Aib

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 5

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Leu Leu Asp Lys
1   5   10   15

Lys Ala Gln Xaa Asp Phe Val Asn Trp Leu Leu Ala Gln Gly Pro Ser
            20   25   30

Ser Gly Ala Pro Pro Pro Ser
        35

<210> 6
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<220>
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<220>
<221> MISC_FEATURE
<222> (2)..(2)

<223> Xaa at position 2 is D-Ala

<220>
<221> MOD_RES
<222> (17)..(17)
<223> Lys at position 17 is chemically modified by conjugation of the epsilon-amino group of the Lys side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)16-CO 2H

<220>
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<222> (20)..(20)
<223> Xaa at position 20 is Aib

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 6

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Leu Leu Asp Lys
1 5 10 15

Lys Ala Gln Xaa Asp Phe Val Asn Trp Leu Leu Ala Gln Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 7
<211> 39
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<220>
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<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa at position 2 is Aib

<220>
<221> MISC_FEATURE
<222> (13)..(13)
<223> Xaa at position 13 is alpha-methyl-Leu

<220>

<221> MOD_RES
<222> (17)..(17)
<223> Lys at position 17 is chemically modified by conjugation of the epsilon-amino group of the Lys side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)18-CO 2H

<220>
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<222> (20)..(20)
<223> Xaa at position 20 is Aib

<220>
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<222> (25)..(25)
<223> Xaa at position 25 is 4-Pal

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 7

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Xaa Leu Asp Lys
1 5 10 15

Lys His Gln Xaa Asp Phe Val Glu Xaa Leu Leu Glu Ala Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 8
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<220>
<223> Synthetic Construct

<220>
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<222> (2)..(2)
<223> Xaa at position 2 is Aib

<220>
<221> MISC_FEATURE
<222> (13)..(13)
<223> Xaa at position 13 is alpha-methyl-Leu

<220>
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<222> (16)..(16)
<223> Xaa at position 16 is Orn

<220>
<221> MOD_RES
<222> (17)..(17)
<223> Lys at position 17 is chemically modified by conjugation of the epsilon-amino group of the Lys side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)18-CO 2H

<220>
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<222> (20)..(20)
<223> Xaa at position 20 is Aib

<220>
<221> MISC_FEATURE
<222> (25)..(25)
<223> Xaa at position 25 is 4-Pal

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 8

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Xaa Leu Asp Xaa
1 5 10 15

Lys His Gln Xaa Asp Phe Val Glu Xaa Leu Leu Glu Ala Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 9
<211> 39
<212> PRT
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<220>
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<220>
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<222> (2)..(2)
<223> Xaa at position 2 is Aib

<220>
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<222> (13)..(13)
<223> Xaa at position 13 is alpha-methyl-Leu

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa at position 20 is Aib

<220>
<221> MOD_RES
<222> (26)..(26)
<223> Lys at position 26 is chemically modified by conjugation of the epsilon-amino group of the Lys side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)18-CO 2H

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 9

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Xaa Leu Asp Lys
1 5 10 15

Ile His Gln Xaa Asp Phe Val Glu Tyr Lys Leu Glu Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 10
<211> 39
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<213> Artificial Sequence

<220>
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<223> Xaa at position 2 is Aib

<220>
<221> MISC_FEATURE
<222> (13)..(13)
<223> Xaa at position 13 is alpha-methyl-Leu

<220>
<221> MISC_FEATURE
<222> (16)..(16)
<223> Xaa at position 16 is Orn

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa at position 20 is Aib

<220>
<221> MOD_RES
<222> (26)..(26)
<223> Lys at position 26 is chemically modified by conjugation of the epsilon-amino group of the Lys side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)18-CO 2H

<220>
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<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 10

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Xaa Leu Asp Xaa
1 5 10 15

Ile His Gln Xaa Asp Phe Val Glu Tyr Lys Leu Glu Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 11
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<220>
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<222> (2)..(2)

<223> Xaa at position 2 is Aib

<220>
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<222> (13)..(13)
<223> Xaa at position 13 is alpha-methyl-Leu

<220>
<221> MISC_FEATURE
<222> (16)..(16)
<223> Xaa at position 16 is Orn

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa at position 20 is Aib

<220>
<221> MISC_FEATURE
<222> (24)..(24)
<223> Xaa at position 24 is D-Glu

<220>
<221> MOD_RES
<222> (26)..(26)
<223> Lys at position 26 is chemically modified by conjugation of the epsilon-amino group of the Lys side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)16-CO 2H

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 11

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Xaa Leu Asp Xaa
1 5 10 15

Ile His Gln Xaa Glu Phe Val Xaa Tyr Lys Leu Glu Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 12
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<220>
<223> Synthetic Construct

<220>
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<222> (2)..(2)
<223> Xaa at position 2 is Aib

<220>
<221> MOD_RES
<222> (17)..(17)
<223> Lys at position 17 is chemically modified by conjugation of the
       epsilon-amino group of the Lys side chain with
       (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)18-CO
       2H

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa at position 20 is Aib

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 12

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Leu Leu Asp Lys
1   5   10   15

Lys Ala Gln Xaa Asp Phe Val Asn Trp Leu Leu Ala Gln Gly Pro Ser
            20   25   30

Ser Gly Ala Pro Pro Pro Ser
        35

<210> 13
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<220>
<223> Synthetic Construct

<220>
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<222> (2)..(2)
<223> Xaa at position 2 is D-Ala

<220>
<221> MOD_RES
<222> (17)..(17)
<223> Lys at position 17 is chemically modified by conjugation of the epsilon-amino group of the Lys side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)18-CO 2H

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa at position 20 is Aib

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 13

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Leu Leu Asp Lys
1 5 10 15

Lys His Gln Xaa Asp Phe Val Asn Trp Leu Leu Ala Gln Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 14
<211> 39
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<220>
<223> Synthetic Construct

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<222> (2)..(2)
<223> Xaa at position 2 is D-Ala

<220>
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<222> (17)..(17)
<223> Lys at position 17 is chemically modified by conjugation of the epsilon-amino group of the Lys side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)18-CO 2H

<220>
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<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 14

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Leu Leu Asp Lys
1 5 10 15

Lys His Gln Gln Asp Phe Val Asn Trp Leu Leu Ala Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 15
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<222> (17)..(17)
<223> Lys at position 17 is chemically modified by conjugation of the epsilon-amino group of the Lys side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)18-CO2H

<220>
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<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 15

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Leu Leu Asp Lys
1 5 10 15

Lys Ala Gln Gln Asp Phe Val Asn Trp Leu Leu Ala Gln Gly Pro Ser

20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 16
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<220>
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<222> (2)..(2)
<223> Xaa at position 2 is D-Ala

<220>
<221> MOD_RES
<222> (17)..(17)
<223> Lys at position 17 is chemically modified by conjugation of the epsilon-amino group of the Lys side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)18-CO 2H

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 16

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Leu Leu Asp Lys
1 5 10 15

Lys Ala Gln Gln Asp Phe Val Asn Trp Leu Leu Ala Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 17
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<220>
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<222> (2)..(2)
<223> Xaa at position 2 is D-Ala

<220>
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<222> (17)..(17)
<223> Lys at position 17 is chemically modified by conjugation of the epsilon-amino group of the Lys side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)18-CO 2H

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 17

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Leu Leu Asp Lys
1 5 10 15

Lys His Gln Gln Glu Phe Val Asn Trp Leu Leu Ala Gln Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 18
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<222> (2)..(2)
<223> Xaa at position 2 is D-Ala

<220>
<221> MOD_RES
<222> (17)..(17)
<223> Lys at position 17 is chemically modified by conjugation of the epsilon-amino group of the Lys side chain with

(2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)18-CO
2H

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 18

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Leu Leu Asp Lys
1 5 10 15

Lys His Gln Gln Asp Phe Val Glu Trp Leu Leu Ala Gln Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 19
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<222> (2)..(2)
<223> Xaa at position 2 is D-Ala

<220>
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<223> Lys at position 17 is chemically modified by conjugation of the
epsilon-amino group of the Lys side chain with
(2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)18-CO
2H

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 19

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Leu Leu Asp Lys
1 5 10 15

Lys His Gln Gln Asp Phe Val Asn Tyr Leu Leu Ala Gln Gly Pro Ser
            20   25   30

Ser Gly Ala Pro Pro Pro Ser
        35

<210> 20
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<223> Synthetic Construct

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa at position 2 is D-Ala

<220>
<221> MOD_RES
<222> (17)..(17)
<223> Lys at position 17 is chemically modified by conjugation of the
       epsilon-amino group of the Lys side chain with
       (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)16-CO
       2H

<220>
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<222> (20)..(20)
<223> Xaa at position 20 is Aib

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 20

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Leu Leu Asp Lys
1   5   10   15

Lys Ala Gln Xaa Asp Phe Val Glu Trp Leu Leu Ala Gln Gly Pro Ser
            20   25   30

Ser Gly Ala Pro Pro Pro Ser
        35

<210> 21
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<220>
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<222> (2)..(2)
<223> Xaa at position 2 is D-Ala

<220>
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<222> (17)..(17)
<223> Lys at position 17 is chemically modified by conjugation of the epsilon-amino group of the Lys side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)16-CO 2H

<220>
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<222> (20)..(20)
<223> Xaa at position 20 is Aib

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 21

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Leu Leu Asp Lys
1 5 10 15

Lys Ala Gln Xaa Asp Phe Val Asn Trp Leu Leu Glu Gln Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 22
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<222> (2)..(2)
<223> Xaa at position 2 is D-Ala

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<223> Lys at position 17 is chemically modified by conjugation of the epsilon-amino group of the Lys side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)16-CO 2H

<220>
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<223> Xaa at position 20 is Aib

<220>
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<222> (25)..(25)
<223> Xaa at position 25 is 4-Pal

<220>
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<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 22

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Leu Leu Asp Lys
1 5 10 15

Lys Ala Gln Xaa Asp Phe Val Asn Xaa Leu Leu Ala Gln Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 23
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<220>
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<223> Lys at position 17 is chemically modified by conjugation of the epsilon-amino group of the Lys side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)16-CO 2H

<220>
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<222> (20)..(20)
<223> Xaa at position 20 is Aib

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 23

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Leu Leu Asp Lys
1 5 10 15

Lys Ala Gln Xaa Asp Phe Val Asn Trp Leu Leu Ala Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 24
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<222> (2)..(2)
<223> Xaa at position 2 is D-Ala

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epsilon-amino group of the Lys side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)16-CO 2H

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa at position 20 is Aib

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 24

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Leu Leu Asp Lys
1 5 10 15

Lys Ala Gln Xaa Glu Phe Val Asn Trp Leu Leu Ala Gln Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 25
<211> 39
<212> PRT
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<220>
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<220>
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<223> Xaa at position 2 is Aib

<220>
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<223> Lys at position 17 is chemically modified by conjugation of the epsilon-amino group of the Lys side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)16-CO 2H

<220>
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<223> Xaa at position 20 is Aib

<220>
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<222> (25)..(25)
<223> Xaa at position 25 is 4-Pal

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 25

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Ala Leu Asp Lys
1 5 10 15

Lys His Gln Xaa Asp Phe Val Glu Xaa Leu Leu Ala Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 26
<211> 39
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<213> Artificial Sequence

<220>
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<220>
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<223> Xaa at position 2 is Aib

<220>
<221> MOD_RES
<222> (17)..(17)
<223> Lys at position 17 is chemically modified by conjugation of the epsilon-amino group of the Lys side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)16-CO2H

<220>
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<223> Xaa at position 20 is Aib

<220>
<221> MISC_FEATURE

<222> (25)..(25)
<223> Xaa at position 25 is 4-Pal

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 26

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Leu Leu Asp Lys
1 5 10 15

Lys His Gln Xaa Asp Phe Val Glu Xaa Leu Leu Ala Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 27
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<223> Xaa at position 2 is Aib

<220>
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<222> (6)..(6)
<223> Xaa at position 6 is alpha-methyl-Phe

<220>
<221> MOD_RES
<222> (17)..(17)
<223> Lys at position 17 is chemically modified by conjugation of the epsilon-amino group of the Lys side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)16-CO2H

<220>
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<222> (20)..(20)
<223> Xaa at position 20 is Aib

<220>
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<222> (25)..(25)
<223> Xaa at position 25 is 4-Pal

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 27

Tyr Xaa Glu Gly Thr Xaa Ile Ser Asp Tyr Ser Ile Ala Leu Asp Lys
1 5 10 15

Lys His Gln Xaa Asp Phe Val Glu Xaa Leu Leu Ala Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 28
<211> 39
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<220>
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<220>
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<223> Xaa at position 2 is Aib

<220>
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<223> Xaa at position 13 is Aib

<220>
<221> MOD_RES
<222> (17)..(17)
<223> Lys at position 17 is chemically modified by conjugation of the epsilon-amino group of the Lys side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)16-CO 2H

<220>
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<223> Xaa at position 20 is Aib

<220>
<221> MISC_FEATURE
<222> (25)..(25)
<223> Xaa at position 25 is 4-Pal

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 28

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Xaa Leu Asp Lys
1 5 10 15

Lys His Gln Xaa Asp Phe Val Glu Xaa Leu Leu Ala Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 29
<211> 39
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<220>
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<223> Xaa at position 2 is Aib

<220>
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<222> (6)..(6)
<223> Xaa at position 6 is alpha-methyl-Phe

<220>
<221> MOD_RES
<222> (17)..(17)
<223> Lys at position 17 is chemically modified by conjugation of the epsilon-amino group of the Lys side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)18-CO2H

<220>

<221> MISC_FEATURE
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<223> Xaa at position 20 is Aib

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 29

Tyr Xaa Glu Gly Thr Xaa Ile Ser Asp Tyr Ser Ile Ala Leu Asp Lys
1 5 10 15

Lys His Gln Xaa Glu Phe Val Asn Trp Leu Leu Ala Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 30
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> (2)..(2)
<223> Xaa at position 2 is Aib

<220>
<221> MISC_FEATURE
<222> (6)..(6)
<223> Xaa at position 6 is alpha-methyl-Phe(2F)

<220>
<221> MOD_RES
<222> (17)..(17)
<223> Lys at position 17 is chemically modified by conjugation of the epsilon-amino group of the Lys side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)18-CO2H

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa at position 20 is Aib

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 30

Tyr Xaa Glu Gly Thr Xaa Ile Ser Asp Tyr Ser Ile Ala Leu Asp Lys
1 5 10 15

Lys His Gln Xaa Glu Phe Val Asn Trp Leu Leu Ala Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 31
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa at position 2 is D-Ala

<220>
<221> MOD_RES
<222> (17)..(17)
<223> Lys at position 17 is chemically modified by conjugation of the epsilon-amino group of the Lys side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)16-CO 2H

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa at position 20 is Aib

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 31

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Leu Leu Asp Lys
1   5   10   15

Lys Ala Gln Xaa Glu Phe Val Gln Trp Leu Leu Ala Gly Gly Pro Ser
            20   25   30

Ser Gly Ala Pro Pro Pro Ser
        35

<210> 32
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
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<222> (2)..(2)
<223> Xaa at position 2 is D-Ala

<220>
<221> MOD_RES
<222> (17)..(17)
<223> Lys at position 17 is chemically modified by conjugation of the
       epsilon-amino group of the Lys side chain with
       (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)16-CO
       2H

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa at position 20 is Aib

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 32

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Leu Leu Asp Lys
1   5   10   15

Lys Ala Gln Xaa Glu Phe Val Asn Trp Leu Leu Glu Gly Gly Pro Ser
            20   25   30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 33
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> (2)..(2)
<223> Xaa at position 2 is D-Ala

<220>
<221> MOD_RES
<222> (17)..(17)
<223> Lys at position 17 is chemically modified by conjugation of the epsilon-amino group of the Lys side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)16-CO 2H

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa at position 20 is Aib

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 33

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Leu Leu Asp Lys
1 5 10 15

Lys Ala Gln Xaa Glu Phe Val Glu Trp Leu Leu Ala Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 34
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
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<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> Xaa at position 1 is D-Tyr

<220>
<221> MOD_RES
<222> (1)..(1)
<223> The N-terminus of Xaa at position 1 is acetylated

<220>
<221> MISC_FEATURE
<222> (6)..(6)
<223> Xaa at position 6 is alpha-methyl-Phe(2F)

<220>
<221> MOD_RES
<222> (17)..(17)
<223> Lys at position 17 is chemically modified by conjugation of the
       epsilon-amino group of the Lys side chain with
       (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)16-CO
       2H

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa at position 20 is Aib

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 34

Xaa Ala Glu Gly Thr Xaa Ile Ser Asp Tyr Ser Ile Ala Leu Asp Lys
1   5   10   15

Lys His Gln Xaa Glu Phe Val Asn Tyr Leu Leu Ala Gly Gly Pro Ser
            20   25   30

Ser Gly Ala Pro Pro Pro Ser
        35

<210> 35
<211> 39

<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
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<222> (2)..(2)
<223> Xaa at position 2 is Aib

<220>
<221> MOD_RES
<222> (17)..(17)
<223> Lys at position 17 is chemically modified by conjugation of the epsilon-amino group of the Lys side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)16-CO 2H

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa at position 20 is Aib

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 35

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Leu Leu Asp Lys
1 5 10 15

Lys His Gln Xaa Asp Phe Val Asn Tyr Leu Leu Ala Ala Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 36
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
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<220>

<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa at position 2 is D-Ala

<220>
<221> MOD_RES
<222> (17)..(17)
<223> Lys at position 17 is chemically modified by conjugation of the epsilon-amino group of the Lys side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)16-CO 2H

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa at position 20 is Aib

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 36

Tyr Xaa Glu Gly Thr Leu Ile Ser Asp Tyr Ser Ile Leu Leu Asp Lys
1 5 10 15

Lys Ala Gln Xaa Asp Phe Val Asn Trp Leu Leu Ala Gln Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 37
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
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<223> Xaa at position 1 is D-Tyr

<220>
<221> MOD_RES
<222> (1)..(1)
<223> The N-terminus of Xaa at position 1 is acetylated

<220>
<221> MISC_FEATURE
<222> (6)..(6)
<223> Xaa at position 6 is alpha-methyl-Phe(2F)

<220>
<221> MOD_RES
<222> (17)..(17)
<223> Lys at position 17 is chemically modified by conjugation of the epsilon-amino group of the Lys side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)18-CO 2H

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa at position 20 is Aib

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 37

Xaa Ala Glu Gly Thr Xaa Ile Ser Asp Tyr Ser Ile Ala Leu Asp Lys
1 5 10 15

Lys His Gln Xaa Glu Phe Val Asn Tyr Leu Leu Glu Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 38
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
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<222> (2)..(2)
<223> Xaa at position 2 is Aib

<220>
<221> MISC_FEATURE

<222> (6)..(6)
<223> Xaa at position 6 is alpha-methyl-Phe(2F)

<220>
<221> MOD_RES
<222> (17)..(17)
<223> Lys at position 17 is chemically modified by conjugation of the epsilon-amino group of the Lys side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)18-CO 2H

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa at position 20 is Aib

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 38

Tyr Xaa Glu Gly Thr Xaa Ile Ser Asp Tyr Ser Ile Ala Leu Asp Lys
1 5 10 15

Lys His Gln Xaa Glu Phe Val Asn Tyr Leu Leu Ala Thr Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 39
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> (2)..(2)
<223> Xaa at position 2 is Aib

<220>
<221> MISC_FEATURE
<222> (6)..(6)
<223> Xaa at position 6 is alpha-methyl-Leu

<220>
<221> MOD_RES
<222> (17)..(17)
<223> Lys at position 17 is chemically modified by conjugation of the epsilon-amino group of the Lys side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)18-CO 2H

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa at position 20 is Aib

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 39

Tyr Xaa Glu Gly Thr Xaa Ile Ser Asp Tyr Ser Ile Ala Leu Asp Lys
1 5 10 15

Lys His Gln Xaa Glu Phe Val Asn Tyr Leu Leu Ala Thr Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 40
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
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<223> Xaa at position 2 is Aib

<220>
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<222> (6)..(6)
<223> Xaa at position 6 is alpha-methyl-Phe(2F)

<220>
<221> MOD_RES
<222> (17)..(17)

<223> Lys at position 17 is chemically modified by conjugation of the epsilon-amino group of the Lys side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)18-CO 2H

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa at position 20 is Aib

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 40

Tyr Xaa Glu Gly Thr Xaa Ile Ser Asp Tyr Ser Ile Ala Leu Asp Lys
1 5 10 15

Lys His Gln Xaa Asp Phe Val Glu Tyr Leu Leu Glu Thr Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 41
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> (2)..(2)
<223> Xaa at position 2 is Aib

<220>
<221> MISC_FEATURE
<222> (6)..(6)
<223> Xaa at position 6 is alpha-methyl-Phe(2F)

<220>
<221> MOD_RES
<222> (17)..(17)
<223> Lys at position 17 is chemically modified by conjugation of the epsilon-amino group of the Lys side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)18-CO

2H

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa at position 20 is Aib

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 41

Tyr Xaa Glu Gly Thr Xaa Ile Ser Asp Tyr Ser Ile Ala Leu Asp Lys
1 5 10 15

Lys His Gln Xaa Asp Phe Val Glu Tyr Leu Leu Glu Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 42
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> (2)..(2)
<223> Xaa at position 2 is Aib

<220>
<221> MISC_FEATURE
<222> (6)..(6)
<223> Xaa at position 6 is alpha-methyl-Phe(2F)

<220>
<221> MOD_RES
<222> (17)..(17)
<223> Lys at position 17 is chemically modified by conjugation of the epsilon-amino group of the Lys side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)18-CO 2H

<220>

<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa at position 20 is Aib

<220>
<221> MISC_FEATURE
<222> (25)..(25)
<223> Xaa at position 25 is 4-Pal

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 42

Tyr Xaa Glu Gly Thr Xaa Ile Ser Asp Tyr Ser Ile Ala Leu Asp Lys
1 5 10 15

Lys His Gln Xaa Asp Phe Val Glu Xaa Leu Leu Glu Thr Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 43
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> (2)..(2)
<223> Xaa at position 2 is Aib

<220>
<221> MISC_FEATURE
<222> (6)..(6)
<223> Xaa at position 6 is alpha-methyl-Phe(2F)

<220>
<221> MOD_RES
<222> (17)..(17)
<223> Lys at position 17 is chemically modified by conjugation of the epsilon-amino group of the Lys side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)18-CO2H

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa at position 20 is Aib

<220>
<221> MISC_FEATURE
<222> (25)..(25)
<223> Xaa at position 25 is 4-Pal

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 43

Tyr Xaa Glu Gly Thr Xaa Ile Ser Asp Tyr Ser Ile Ala Leu Asp Lys
1 5 10 15

Lys His Gln Xaa Asp Phe Val Glu Xaa Leu Leu Glu Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 44
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> (2)..(2)
<223> Xaa at position 2 is Aib

<220>
<221> MISC_FEATURE
<222> (6)..(6)
<223> Xaa at position 6 is alpha-methyl-Phe(2F)

<220>
<221> MOD_RES
<222> (17)..(17)
<223> Lys at position 17 is chemically modified by conjugation of the epsilon-amino group of the Lys side chain with

(2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)18-CO
2H

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa at position 20 is Aib

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 44

Tyr Xaa Glu Gly Thr Xaa Ile Ser Asp Tyr Ser Ile Ala Leu Asp Lys
1 5 10 15

Lys His Gln Xaa Asp Phe Val Glu Trp Leu Leu Glu Thr Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 45
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> (2)..(2)
<223> Xaa at position 2 is Aib

<220>
<221> MISC_FEATURE
<222> (6)..(6)
<223> Xaa at position 6 is alpha-methyl-Phe

<220>
<221> MOD_RES
<222> (17)..(17)
<223> Lys at position 17 is chemically modified by conjugation of the
epsilon-amino group of the Lys side chain with
(2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)18-CO
2H

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa at position 20 is Aib

<220>
<221> MISC_FEATURE
<222> (25)..(25)
<223> Xaa at position 25 is 4-Pal

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 45

Tyr Xaa Glu Gly Thr Xaa Ile Ser Asp Tyr Ser Ile Ala Leu Asp Lys
1 5 10 15

Lys His Gln Xaa Asp Phe Val Glu Xaa Leu Leu Glu Thr Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 46
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> (2)..(2)
<223> Xaa at position 2 is Aib

<220>
<221> MISC_FEATURE
<222> (6)..(6)
<223> Xaa at position 6 is alpha-methyl-Phe

<220>
<221> MOD_RES
<222> (17)..(17)
<223> Lys at position 17 is chemically modified by conjugation of the epsilon-amino group of the Lys side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)18-CO

2H

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa at position 20 is Aib

<220>
<221> MISC_FEATURE
<222> (25)..(25)
<223> Xaa at position 25 is 4-Pal

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 46

Tyr Xaa Glu Gly Thr Xaa Ile Ser Asp Tyr Ser Ile Ala Leu Asp Lys
1 5 10 15

Lys His Gln Xaa Asp Phe Val Glu Xaa Leu Leu Glu Gln Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 47
<211> 39
<212> PRT
<213> Artificial Sequence

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<220>
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<220>
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<223> Ser at position 39 is amidated

<400> 47

Tyr Xaa Glu Gly Thr Xaa Ile Ser Asp Tyr Ser Ile Ala Leu Asp Lys
1 5 10 15

Lys His Gln Xaa Asp Phe Val Glu Xaa Leu Leu Glu Ala Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 48
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<223> Ser at position 39 is amidated

<400> 48

Tyr Xaa Glu Gly Thr Xaa Ile Ser Asp Tyr Ser Ile Ala Leu Asp Lys
1 5 10 15

Lys His Gln Xaa Asp Phe Val Glu Xaa Leu Leu Glu Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 49
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<223> Ser at position 39 is amidated

<400> 49

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Xaa Leu Asp Lys
1 5 10 15

Lys His Gln Xaa Asp Phe Val Glu Xaa Leu Leu Glu Thr Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 50
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<220>
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<223> Ser at position 39 is amidated

<400> 50

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Xaa Leu Asp Lys
1 5 10 15

Lys His Gln Xaa Asp Phe Val Glu Xaa Leu Leu Glu Gln Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 51
<211> 39
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<223> Ser at position 39 is amidated

<400> 51

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Xaa Leu Asp Lys
1 5 10 15

Lys His Gln Xaa Asp Phe Val Glu Xaa Leu Leu Glu Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 52
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<220>
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<223> Ser at position 39 is amidated

<400> 52

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Xaa Leu Asp Lys
1 5 10 15

Lys His Gln Xaa Asp Phe Val Glu Xaa Leu Leu Ala Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 53
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<220>
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<223> Xaa at position 25 is 4-Pal

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 53

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Xaa Leu Asp Lys
1 5 10 15

Lys His Gln Xaa Asp Phe Val Glu Xaa Leu Leu Ala Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 54
<211> 39
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<220>
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<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 54

Tyr Xaa Glu Gly Thr Xaa Ile Ser Asp Tyr Ser Ile Xaa Leu Asp Lys
1 5 10 15

Lys His Gln Xaa Asp Phe Val Glu Xaa Leu Leu Ala Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 55
<211> 39

<212> PRT
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<220>
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<223> Xaa at position 25 is 4-Pal

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 55

Tyr Xaa Glu Gly Thr Xaa Ile Ser Asp Tyr Ser Ile Xaa Leu Asp Lys
1 5 10 15

Lys His Gln Xaa Asp Phe Val Glu Xaa Leu Leu Ala Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 56
<211> 39
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<220>
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<220>
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<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 56

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Xaa Leu Asp Lys
1 5 10 15

Lys His Gln Xaa Glu Phe Val Glu Xaa Leu Leu Ala Gly Gly Pro Ser

20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 57
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<220>
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<220>
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<220>
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<220>
<221> MOD_RES
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<223> Ser at position 39 is amidated

<400> 57

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Xaa Leu Asp Lys
1 5 10 15

Lys His Gln Xaa Asp Phe Val Glu Tyr Leu Leu Ala Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 58
<211> 39
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<220>
<221> MOD_RES
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<223> Ser at position 39 is amidated

<400> 58

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Xaa Leu Asp Lys
1 5 10 15

Lys His Gln Xaa Asp Phe Val Glu Trp Leu Leu Ala Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 59
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<212> PRT
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<223> Xaa at position 25 is 4-Pal

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 59

Tyr Xaa Glu Gly Thr Xaa Ile Ser Asp Tyr Ser Ile Xaa Leu Asp Lys
1 5 10 15

Lys His Gln Xaa Asp Phe Val Glu Xaa Leu Leu Ala Gly Gly Pro Ser
            20   25   30

Ser Gly Ala Pro Pro Pro Ser
        35

<210> 60
<211> 39
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       epsilon-amino group of the Lys side chain with
       (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)18-CO
       2H

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<220>
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<220>
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<223> Ser at position 39 is amidated

<400> 60

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Xaa Leu Asp Lys
1 5 10 15

Lys His Gln Xaa Asp Xaa Val Glu Xaa Leu Leu Ala Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 61
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<220>
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<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 61

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Xaa Leu Asp Lys
1 5 10 15

Lys His Gln Xaa Glu Phe Val Glu Xaa Leu Leu Ala Gln Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 62
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<223> Ser at position 39 is amidated

<400> 62

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Xaa Leu Asp Lys
1 5 10 15

Lys His Gln Xaa Glu Phe Val Glu Xaa Leu Leu Ala Thr Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 63
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<220>
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<223> Xaa at position 25 is 4-Pal

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 63

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Xaa Leu Asp Lys
1 5 10 15

Lys His Gln Xaa Glu Phe Val Glu Xaa Leu Leu Ala Ala Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 64
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<220>
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<220>
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<223> Lys at position 17 is chemically modified by conjugation of the epsilon-amino group of the Lys side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)18-CO2H

<220>

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<220>
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<223> Xaa at position 25 is 4-Pal

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 64

Tyr Xaa Glu Gly Thr Xaa Ile Ser Asp Tyr Ser Ile Xaa Leu Asp Lys
1 5 10 15

Lys His Gln Xaa Glu Phe Val Glu Xaa Leu Leu Ala Gln Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 65
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<220>
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<220>
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<222> (17)..(17)
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<220>
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<220>
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<220>
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<223> Ser at position 39 is amidated

<400> 65

Tyr Xaa Glu Gly Thr Xaa Ile Ser Asp Tyr Ser Ile Xaa Leu Asp Lys
1 5 10 15

Lys His Gln Xaa Glu Phe Val Glu Xaa Leu Leu Ala Thr Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 66
<211> 39
<212> PRT
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<220>
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<220>
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<220>
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<220>
<221> MOD_RES
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<223> Ser at position 39 is amidated

<400> 66

Tyr Xaa Glu Gly Thr Xaa Ile Ser Asp Tyr Ser Ile Xaa Leu Asp Lys
1 5 10 15

Lys His Gln Xaa Glu Phe Val Glu Xaa Leu Leu Ala Ala Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 67
<211> 39
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<220>
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<223> Xaa at position 13 is alpha-methyl-Leu

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<223> Lys at position 17 is chemically modified by conjugation of the epsilon-amino group of the Lys side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)18-CO 2H

<220>
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<223> Xaa at position 20 is Aib

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<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 67

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Xaa Leu Asp Lys
1 5 10 15

Lys His Gln Xaa Glu Phe Val Glu Tyr Leu Leu Glu Gln Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 68
<211> 39
<212> PRT
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<220>
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<220>
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<220>
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<223> Xaa at position 20 is Aib

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 68

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Xaa Leu Asp Lys
1 5 10 15

Lys His Gln Xaa Glu Phe Val Glu Tyr Leu Leu Glu Thr Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 69
<211> 39
<212> PRT
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<220>
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<220>
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<223> Xaa at position 13 is alpha-methyl-Leu

<220>
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<220>
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<223> Xaa at position 20 is Aib

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 69

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Xaa Leu Asp Lys
1 5 10 15

Lys His Gln Xaa Glu Phe Val Glu Tyr Leu Leu Glu Ala Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 70
<211> 39
<212> PRT
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<220>
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<223> Xaa at position 13 is alpha-methyl-Leu

<220>
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<222> (17)..(17)
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<220>
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<223> Xaa at position 20 is Aib

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 70

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Xaa Leu Asp Lys
1 5 10 15

Lys His Gln Xaa Asp Phe Val Glu Tyr Leu Leu Glu Thr Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 71
<211> 39
<212> PRT
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<220>
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<223> Xaa at position 13 is alpha-methyl-Leu

<220>
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(2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)18-CO
2H

<220>
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<223> Xaa at position 20 is Aib

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 71

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Xaa Leu Asp Lys
1 5 10 15

Lys His Gln Xaa Asp Phe Val Glu Tyr Leu Leu Glu Gln Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 72
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
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<222> (13)..(13)
<223> Xaa at position 13 is alpha-methyl-Leu

<220>
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<222> (17)..(17)
<223> Lys at position 17 is chemically modified by conjugation of the
epsilon-amino group of the Lys side chain with
(2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)18-CO
2H

<220>
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<223> Xaa at position 20 is Aib

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 72

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Xaa Leu Asp Lys
1 5 10 15

Lys His Gln Xaa Asp Phe Val Glu Tyr Leu Leu Glu Ala Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 73
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<220>
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<222> (17)..(17)
<223> Lys at position 17 is chemically modified by conjugation of the epsilon-amino group of the Lys side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)18-CO2H

<220>
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<223> Xaa at position 20 is Aib

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 73

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Xaa Leu Asp Lys
1 5 10 15

Lys His Gln Xaa Asp Phe Val Glu Tyr Leu Leu Glu Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 74
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> (17)..(17)
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<220>
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<223> Xaa at position 20 is Aib

<220>

<221> MISC_FEATURE
<222> (25)..(25)
<223> Xaa at position 25 is 4-Pal

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 74

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Xaa Leu Asp Lys
1 5 10 15

Lys His Gln Xaa Asp Phe Val Glu Xaa Leu Leu Ala Thr Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 75
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<220>
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<222> (13)..(13)
<223> Xaa at position 13 is alpha-methyl-Leu

<220>
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<222> (17)..(17)
<223> Lys at position 17 is chemically modified by conjugation of the epsilon-amino group of the Lys side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)18-CO2H

<220>
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<223> Xaa at position 20 is Aib

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 75

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Xaa Leu Asp Lys
1 5 10 15

Lys His Gln Xaa Asp Phe Val Glu Trp Leu Leu Glu Thr Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 76
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<220>
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<222> (17)..(17)
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<220>
<221> MISC_FEATURE
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<223> Xaa at position 20 is Aib

<220>
<221> MOD_RES

<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 76

Tyr Xaa Glu Gly Thr Leu Ile Ser Asp Tyr Ser Ile Xaa Leu Asp Lys
1 5 10 15

Lys His Gln Xaa Glu Phe Val Glu Tyr Leu Leu Glu Thr Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 77
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> (13)..(13)
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<220>
<221> MOD_RES
<222> (17)..(17)
<223> Lys at position 17 is chemically modified by conjugation of the epsilon-amino group of the Lys side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)18-CO 2H

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa at position 20 is Aib

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 77

Tyr Xaa Glu Gly Thr Leu Ile Ser Asp Tyr Ser Ile Xaa Leu Asp Lys
1 5 10 15

Lys His Gln Xaa Glu Phe Val Glu Tyr Leu Leu Glu Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 78
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<223> Xaa at position 2 is Aib

<220>
<221> MISC_FEATURE
<222> (6)..(6)
<223> Xaa at position 6 is Iva

<220>
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<222> (13)..(13)
<223> Xaa at position 13 is alpha-methyl-Leu

<220>
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<222> (17)..(17)
<223> Lys at position 17 is chemically modified by conjugation of the epsilon-amino group of the Lys side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)18-CO2H

<220>
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<223> Xaa at position 20 is Aib

<220>
<221> MISC_FEATURE
<222> (25)..(25)

<223> Xaa at position 25 is 4-Pal

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 78

Tyr Xaa Glu Gly Thr Xaa Ile Ser Asp Tyr Ser Ile Xaa Leu Asp Lys
1   5   10   15

Lys His Gln Xaa Asp Phe Val Glu Xaa Leu Leu Glu Gly Gly Pro Ser
            20   25   30

Ser Gly Ala Pro Pro Pro Ser
        35

<210> 79
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

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<220>
<221> MISC_FEATURE
<222> (6)..(6)
<223> Xaa at position 6 is Iva

<220>
<221> MISC_FEATURE
<222> (13)..(13)
<223> Xaa at position 13 is alpha-methyl-Leu

<220>
<221> MOD_RES
<222> (17)..(17)
<223> Lys at position 17 is chemically modified by conjugation of the
       epsilon-amino group of the Lys side chain with
       (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)18-CO
       2H

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<220>
<221> MISC_FEATURE
<222> (25)..(25)
<223> Xaa at position 25 is 4-Pal

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 79

Tyr Xaa Glu Gly Thr Xaa Ile Ser Asp Tyr Ser Ile Xaa Leu Asp Lys
1 5 10 15

Lys His Gln Xaa Asp Phe Val Glu Xaa Leu Leu Glu Thr Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 80
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> (6)..(6)
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<220>
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<222> (13)..(13)
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<220>
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<222> (16)..(16)
<223> Xaa at position 16 is Orn

<220>
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<222> (17)..(17)
<223> Lys at position 17 is chemically modified by conjugation of the epsilon-amino group of the Lys side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)18-CO 2H

<220>
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<222> (20)..(20)
<223> Xaa at position 20 is Aib

<220>
<221> MISC_FEATURE
<222> (25)..(25)
<223> Xaa at position 25 is 4-Pal

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 80

Tyr Xaa Glu Gly Thr Xaa Ile Ser Asp Tyr Ser Ile Xaa Leu Asp Xaa
1 5 10 15

Lys His Gln Xaa Asp Phe Val Glu Xaa Leu Leu Glu Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 81
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> (6)..(6)
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<220>
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<222> (13)..(13)
<223> Xaa at position 13 is alpha-methyl-Leu

<220>
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<222> (16)..(16)
<223> Xaa at position 16 is Orn

<220>
<221> MOD_RES
<222> (17)..(17)
<223> Lys at position 17 is chemically modified by conjugation of the epsilon-amino group of the Lys side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)18-CO 2H

<220>
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<222> (20)..(20)
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<220>
<221> MISC_FEATURE
<222> (25)..(25)
<223> Xaa at position 25 is 4-Pal

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 81

Tyr Xaa Glu Gly Thr Xaa Ile Ser Asp Tyr Ser Ile Xaa Leu Asp Xaa
1 5 10 15

Lys His Gln Xaa Asp Phe Val Glu Xaa Leu Leu Glu Thr Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 82
<211> 39

<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<220>
<221> MISC_FEATURE
<222> (13)..(13)
<223> Xaa at position 13 is alpha-methyl-Leu

<220>
<221> MOD_RES
<222> (17)..(17)
<223> Lys at position 17 is chemically modified by conjugation of the epsilon-amino group of the Lys side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)18-CO 2H

<220>
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<222> (20)..(20)
<223> Xaa at position 20 is Aib

<220>
<221> MISC_FEATURE
<222> (25)..(25)
<223> Xaa at position 25 is 4-Pal

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 82

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Xaa Leu Asp Lys
1 5 10 15

Lys His Gln Xaa Asp Phe Val Glu Xaa Leu Leu Ala Ala Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 83
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> (13)..(13)
<223> Xaa at position 13 is alpha-methyl-Leu

<220>
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<222> (17)..(17)
<223> Lys at position 17 is chemically modified by conjugation of the epsilon-amino group of the Lys side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)18-CO 2H

<220>
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<222> (20)..(20)
<223> Xaa at position 20 is Aib

<220>
<221> MISC_FEATURE
<222> (25)..(25)
<223> Xaa at position 25 is 4-Pal

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 83

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Xaa Leu Asp Lys
1 5 10 15

Lys His Gln Xaa Asp Phe Val Glu Xaa Leu Leu Ala Gln Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 84
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
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<223> Xaa at position 2 is Aib

<220>
<221> MISC_FEATURE
<222> (13)..(13)
<223> Xaa at position 13 is alpha-methyl-Leu

<220>
<221> MISC_FEATURE
<222> (16)..(16)
<223> Xaa at position 16 is Orn

<220>
<221> MOD_RES
<222> (17)..(17)
<223> Lys at position 17 is chemically modified by conjugation of the epsilon-amino group of the Lys side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)18-CO 2H

<220>
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<222> (20)..(20)
<223> Xaa at position 20 is Aib

<220>
<221> MISC_FEATURE
<222> (25)..(25)
<223> Xaa at position 25 is 4-Pal

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 84

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Xaa Leu Asp Xaa
1 5 10 15

Lys His Gln Xaa Asp Phe Val Glu Xaa Leu Leu Glu Thr Gly Pro Ser
            20   25   30

Ser Gly Ala Pro Pro Pro Ser
        35

<210> 85
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<220>
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<222> (13)..(13)
<223> Xaa at position 13 is alpha-methyl-Leu

<220>
<221> MISC_FEATURE
<222> (16)..(16)
<223> Xaa at position 16 is Orn

<220>
<221> MOD_RES
<222> (17)..(17)
<223> Lys at position 17 is chemically modified by conjugation of the
       epsilon-amino group of the Lys side chain with
       (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)18-CO
       2H

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa at position 20 is Aib

<220>
<221> MISC_FEATURE
<222> (25)..(25)
<223> Xaa at position 25 is 4-Pal

<220>
<221> MOD_RES
<222> (39)..(39)

<223> Ser at position 39 is amidated

<400> 85

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Xaa Leu Asp Xaa
1 5 10 15

Lys His Gln Xaa Asp Phe Val Glu Xaa Leu Leu Glu Gln Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 86
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

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<222> (2)..(2)
<223> Xaa at position 2 is Aib

<220>
<221> MISC_FEATURE
<222> (13)..(13)
<223> Xaa at position 13 is alpha-methyl-Leu

<220>
<221> MISC_FEATURE
<222> (16)..(16)
<223> Xaa at position 16 is Orn

<220>
<221> MOD_RES
<222> (17)..(17)
<223> Lys at position 17 is chemically modified by conjugation of the epsilon-amino group of the Lys side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)18-CO 2H

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa at position 20 is Aib

<220>

<221> MISC_FEATURE
<222> (25)..(25)
<223> Xaa at position 25 is 4-Pal

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 86

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Xaa Leu Asp Xaa
1 5 10 15

Lys His Gln Xaa Asp Phe Val Glu Xaa Leu Leu Glu Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 87
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
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<223> Xaa at position 2 is Aib

<220>
<221> MISC_FEATURE
<222> (13)..(13)
<223> Xaa at position 13 is alpha-methyl-Leu

<220>
<221> MOD_RES
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<223> Lys at position 17 is chemically modified by conjugation of the epsilon-amino group of the Lys side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)18-CO 2H

<220>
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<223> Xaa at position 20 is Aib

<220>
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<223> Xaa at position 25 is 4-Pal

<220>
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<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 87

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Xaa Leu Asp Glu
1 5 10 15

Lys His Gln Xaa Asp Phe Val Glu Xaa Leu Leu Ala Thr Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 88
<211> 39
<212> PRT
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<220>
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<220>
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<223> Xaa at position 2 is Aib

<220>
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<223> Xaa at position 13 is alpha-methyl-Leu

<220>
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<222> (17)..(17)
<223> Lys at position 17 is chemically modified by conjugation of the epsilon-amino group of the Lys side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)18-CO2H

<220>
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<223> Xaa at position 20 is Aib

<220>
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<223> Xaa at position 25 is 4-Pal

<220>
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<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 88

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Xaa Leu Asp Glu
1 5 10 15

Lys His Gln Xaa Asp Phe Val Glu Xaa Leu Leu Ala Gln Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 89
<211> 39
<212> PRT
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<220>
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<220>
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<220>
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<220>
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<223> Lys at position 17 is chemically modified by conjugation of the epsilon-amino group of the Lys side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)18-CO 2H

<220>
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<220>
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<223> Xaa at position 25 is 4-Pal

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 89

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Xaa Leu Asp Glu
1 5 10 15

Lys His Gln Xaa Asp Phe Val Glu Xaa Leu Leu Ala Ala Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 90
<211> 39
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<213> Artificial Sequence

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<220>
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<222> (17)..(17)
<223> Lys at position 17 is chemically modified by conjugation of the epsilon-amino group of the Lys side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)18-CO

2H

<220>
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<222> (20)..(20)
<223> Xaa at position 20 is Aib

<220>
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<222> (25)..(25)
<223> Xaa at position 25 is 4-Pal

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 90

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Xaa Leu Asp Glu
1 5 10 15

Lys His Gln Xaa Asp Phe Val Glu Xaa Leu Leu Ala Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 91
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> (13)..(13)
<223> Xaa at position 13 is alpha-methyl-Leu

<220>
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<222> (16)..(16)
<223> Xaa at position 16 is Orn

<220>
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<222> (17)..(17)
<223> Lys at position 17 is chemically modified by conjugation of the epsilon-amino group of the Lys side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)16-CO 2H

<220>
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<222> (20)..(20)
<223> Xaa at position 20 is Aib

<220>
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<222> (25)..(25)
<223> Xaa at position 25 is 4-Pal

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 91

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Xaa Leu Asp Xaa
1 5 10 15

Lys His Gln Xaa Asp Phe Val Glu Xaa Leu Leu Glu Ala Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 92
<211> 39
<212> PRT
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<220>
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<223> Xaa at position 2 is Aib

<220>
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<222> (6)..(6)
<223> Xaa at position 6 is Iva

<220>
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<222> (13)..(13)
<223> Xaa at position 13 is alpha-methyl-Leu

<220>
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<222> (17)..(17)
<223> Lys at position 17 is chemically modified by conjugation of the epsilon-amino group of the Lys side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)18-CO 2H

<220>
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<222> (20)..(20)
<223> Xaa at position 20 is Aib

<220>
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<222> (25)..(25)
<223> Xaa at position 25 is 4-Pal

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 92

Tyr Xaa Glu Gly Thr Xaa Ile Ser Asp Tyr Ser Ile Xaa Leu Asp Lys
1 5 10 15

Lys His Gln Xaa Asp Phe Val Glu Xaa Leu Leu Glu Ala Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 93
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> (13)..(13)
<223> Xaa at position 13 is alpha-methyl-Leu

<220>
<221> MOD_RES
<222> (17)..(17)
<223> Lys at position 17 is chemically modified by conjugation of the epsilon-amino group of the Lys side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)18-CO 2H

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<222> (20)..(20)
<223> Xaa at position 20 is Aib

<220>
<221> MISC_FEATURE
<222> (25)..(25)
<223> Xaa at position 25 is 4-Pal

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 93

Tyr Xaa Glu Gly Thr Leu Ile Ser Asp Tyr Ser Ile Xaa Leu Asp Lys
1 5 10 15

Lys His Gln Xaa Asp Phe Val Glu Xaa Leu Leu Glu Ala Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 94
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
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<220>
<221> MISC_FEATURE
<222> (13)..(13)
<223> Xaa at position 13 is alpha-methyl-Leu

<220>
<221> MOD_RES
<222> (17)..(17)
<223> Lys at position 17 is chemically modified by conjugation of the epsilon-amino group of the Lys side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)18-CO 2H

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa at position 20 is Aib

<220>
<221> MISC_FEATURE
<222> (25)..(25)
<223> Xaa at position 25 is alpha-methyl-Tyr

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 94

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Xaa Leu Asp Lys
1 5 10 15

Lys His Gln Xaa Asp Phe Val Glu Xaa Leu Leu Glu Ala Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 95
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
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<220>
<221> MISC_FEATURE
<222> (13)..(13)
<223> Xaa at position 13 is alpha-methyl-Leu

<220>
<221> MOD_RES
<222> (17)..(17)
<223> Lys at position 17 is chemically modified by conjugation of the
       epsilon-amino group of the Lys side chain with
       (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)18-CO
       2H

<220>
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<222> (20)..(20)
<223> Xaa at position 20 is Aib

<220>
<221> MISC_FEATURE
<222> (25)..(25)
<223> Xaa at position 25 is alpha-methyl-Tyr

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 95

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Xaa Leu Asp Lys
1   5   10   15

Lys His Gln Xaa Asp Phe Val Glu Xaa Leu Leu Glu Gly Gly Pro Ser
            20   25   30

Ser Gly Ala Pro Pro Pro Ser
        35

<210> 96
<211> 39
<212> PRT

<213> Artificial Sequence

<220>
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<222> (2)..(2)
<223> Xaa at position 2 is Aib

<220>
<221> MISC_FEATURE
<222> (13)..(13)
<223> Xaa at position 13 is alpha-methyl-Leu

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa at position 20 is Aib

<220>
<221> MOD_RES
<222> (26)..(26)
<223> Lys at position 26 is chemically modified by conjugation of the epsilon-amino group of the Lys side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)18-CO2H

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 96

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Xaa Leu Asp Lys
1 5 10 15

Ile His Gln Xaa Asp Phe Val Glu Tyr Lys Leu Glu Gln Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 97
<211> 39
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>
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<223> Xaa at position 2 is D-Ala

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa at position 20 is Aib

<220>
<221> MOD_RES
<222> (26)..(26)
<223> Lys at position 26 is chemically modified by conjugation of the epsilon-amino group of the Lys side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)16-CO 2H

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 97

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Leu Leu Asp Lys
1 5 10 15

Ile Ala Gln Xaa Asp Phe Val Asn Trp Lys Leu Ala Gln Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 98
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
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<222> (2)..(2)
<223> Xaa at position 2 is Aib

<220>
<221> MISC_FEATURE
<222> (6)..(6)
<223> Xaa at position 6 is alpha-methyl-Phe(2F)

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa at position 20 is Aib

<220>
<221> MOD_RES
<222> (26)..(26)
<223> Lys at position 26 is chemically modified by conjugation of the epsilon-amino group of the Lys side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)16-CO 2H

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 98

Tyr Xaa Glu Gly Thr Xaa Ile Ser Asp Tyr Ser Ile Ala Leu Asp Lys
1 5 10 15

Ile His Gln Xaa Glu Phe Val Asn Tyr Lys Leu Ala Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 99
<211> 39
<212> PRT
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<220>
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<220>
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<223> Xaa at position 2 is Aib

<220>
<221> MISC_FEATURE
<222> (6)..(6)

<223> Xaa at position 6 is alpha-methyl-Phe(2F)

<220>
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<222> (20)..(20)
<223> Xaa at position 20 is Aib

<220>
<221> MOD_RES
<222> (26)..(26)
<223> Lys at position 26 is chemically modified by conjugation of the epsilon-amino group of the Lys side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)18-CO 2H

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 99

Tyr Xaa Glu Gly Thr Xaa Ile Ser Asp Tyr Ser Ile Ala Leu Asp Lys
1 5 10 15

Ile His Gln Xaa Glu Phe Val Asn Tyr Lys Leu Glu Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 100
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
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<222> (2)..(2)
<223> Xaa at position 2 is Aib

<220>
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<222> (20)..(20)
<223> Xaa at position 20 is Aib

<220>

<221> MOD_RES
<222> (26)..(26)
<223> Lys at position 26 is chemically modified by conjugation of the epsilon-amino group of the Lys side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)18-CO 2H

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 100

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Ala Leu Asp Lys
1 5 10 15

Ile His Gln Xaa Glu Phe Val Asn Tyr Lys Leu Ala Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 101
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
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<222> (2)..(2)
<223> Xaa at position 2 is Aib

<220>
<221> MISC_FEATURE
<222> (6)..(6)
<223> Xaa at position 6 is alpha-methyl-Phe

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa at position 20 is Aib

<220>
<221> MOD_RES
<222> (26)..(26)
<223> Lys at position 26 is chemically modified by conjugation of the

epsilon-amino group of the Lys side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)18-CO 2H

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 101

Tyr Xaa Glu Gly Thr Xaa Ile Ser Asp Tyr Ser Ile Ala Leu Asp Lys
1 5 10 15

Ile His Gln Xaa Glu Phe Val Asn Tyr Lys Leu Ala Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 102
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
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<223> Xaa at position 2 is Aib

<220>
<221> MISC_FEATURE
<222> (6)..(6)
<223> Xaa at position 6 is alpha-methyl-Phe(2F)

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa at position 20 is Aib

<220>
<221> MOD_RES
<222> (26)..(26)
<223> Lys at position 26 is chemically modified by conjugation of the epsilon-amino group of the Lys side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)18-CO 2H

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 102

Tyr Xaa Glu Gly Thr Xaa Ile Ser Asp Tyr Ser Ile Ala Leu Asp Lys
1   5   10   15

Ile His Gln Xaa Glu Phe Val Asn Tyr Lys Leu Ala Gly Gly Pro Ser
            20   25   30

Ser Gly Ala Pro Pro Pro Ser
        35

<210> 103
<211> 39
<212> PRT
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<220>
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<220>
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<222> (2)..(2)
<223> Xaa at position 2 is Aib

<220>
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<222> (6)..(6)
<223> Xaa at position 6 is alpha-methyl-Phe(2F)

<220>
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<222> (20)..(20)
<223> Xaa at position 20 is Aib

<220>
<221> MOD_RES
<222> (26)..(26)
<223> Lys at position 26 is chemically modified by conjugation of the
       epsilon-amino group of the Lys side chain with
       (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)18-CO
       2H

<220>
<221> MOD_RES

<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 103

Tyr Xaa Glu Gly Thr Xaa Ile Ser Asp Tyr Ser Ile Ala Leu Asp Lys
1 5 10 15

Ile His Gln Xaa Asp Phe Val Glu Tyr Lys Leu Glu Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 104
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> (2)..(2)
<223> Xaa at position 2 is Aib

<220>
<221> MISC_FEATURE
<222> (13)..(13)
<223> Xaa at position 13 is alpha-methyl-Leu

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa at position 20 is Aib

<220>
<221> MISC_FEATURE
<222> (25)..(25)
<223> Xaa at position 25 is 4-Pal

<220>
<221> MOD_RES
<222> (26)..(26)
<223> Lys at position 26 is chemically modified by conjugation of the epsilon-amino group of the Lys side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)18-CO2H

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 104

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Xaa Leu Asp Lys
1   5   10   15

Ile His Gln Xaa Glu Phe Val Glu Xaa Lys Leu Glu Gly Gly Pro Ser
            20   25   30

Ser Gly Ala Pro Pro Pro Ser
        35

<210> 105
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> (2)..(2)
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<220>
<221> MISC_FEATURE
<222> (13)..(13)
<223> Xaa at position 13 is alpha-methyl-Leu

<220>
<221> MISC_FEATURE
<222> (16)..(16)
<223> Xaa at position 16 is Orn

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa at position 20 is Aib

<220>
<221> MISC_FEATURE
<222> (24)..(24)
<223> Xaa at position 24 is D-Glu

<220>

<221> MOD_RES
<222> (26)..(26)
<223> Lys at position 26 is chemically modified by conjugation of the epsilon-amino group of the Lys side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)18-CO 2H

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 105

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Xaa Leu Asp Xaa
1 5 10 15

Ile His Gln Xaa Asp Phe Val Xaa Tyr Lys Leu Glu Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 106
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
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<222> (2)..(2)
<223> Xaa at position 2 is Aib

<220>
<221> MISC_FEATURE
<222> (13)..(13)
<223> Xaa at position 13 is alpha-methyl-Leu

<220>
<221> MISC_FEATURE
<222> (16)..(16)
<223> Xaa at position 16 is Orn

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa at position 20 is Aib

<220>
<221> MISC_FEATURE
<222> (24)..(24)
<223> Xaa at position 24 is D-Glu

<220>
<221> MOD_RES
<222> (26)..(26)
<223> Lys at position 26 is chemically modified by conjugation of the epsilon-amino group of the Lys side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)18-CO 2H

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 106

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Xaa Leu Asp Xaa
1 5 10 15

Ile His Gln Xaa Glu Phe Val Xaa Tyr Lys Leu Glu Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 107
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<220>
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<222> (13)..(13)
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<220>
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<222> (16)..(16)
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<220>
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<222> (20)..(20)
<223> Xaa at position 20 is Aib

<220>
<221> MOD_RES
<222> (26)..(26)
<223> Lys at position 26 is chemically modified by conjugation of the epsilon-amino group of the Lys side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)16-CO 2H

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 107

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Xaa Leu Asp Xaa
1 5 10 15

Ile His Gln Xaa Asp Phe Val Glu Tyr Lys Leu Glu Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 108
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<220>
<221> MISC_FEATURE
<222> (13)..(13)
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<220>
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<220>
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<223> Xaa at position 20 is Aib

<220>
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<400> 108

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Xaa Leu Asp Xaa
1 5 10 15

Ile His Gln Xaa Glu Phe Val Glu Tyr Lys Leu Glu Ala Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 109
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Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Xaa Leu Asp Xaa
1 5 10 15

Ile His Gln Xaa Glu Phe Val Glu Tyr Lys Leu Glu Thr Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

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<400> 110

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Xaa Leu Asp Xaa
1 5 10 15

Ile His Gln Xaa Glu Phe Val Glu Tyr Lys Leu Glu Gln Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 111
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<400> 111

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Xaa Leu Asp Xaa
1 5 10 15

Ile His Gln Xaa Glu Phe Val Glu Tyr Lys Leu Glu Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 112
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<220>
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<223> Ser at position 39 is amidated

<400> 112

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Xaa Leu Asp Xaa
1 5 10 15

Ile His Gln Xaa Asp Phe Val Glu Xaa Lys Leu Glu Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 113
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       2H

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<223> Ser at position 39 is amidated

<400> 113

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Xaa Leu Asp Lys
1   5   10   15

Ile His Gln Xaa Asp Phe Val Glu Xaa Lys Leu Glu Gly Gly Pro Ser
            20   25   30

Ser Gly Ala Pro Pro Pro Ser
        35

<210> 114
<211> 39

<212> PRT
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<220>
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<223> Ser at position 39 is amidated

<400> 114

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Xaa Leu Asp Lys
1 5 10 15

Ile His Gln Xaa Asp Phe Val Glu Xaa Lys Leu Glu Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 115
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<220>
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<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 115

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Xaa Leu Asp Xaa
1 5 10 15

Ile His Gln Xaa Asp Phe Val Glu Xaa Lys Leu Glu Gly Gly Pro Ser

20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 116
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<220>
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<223> Ser at position 39 is amidated

<400> 116

Tyr Xaa Glu Gly Thr Xaa Ile Ser Asp Tyr Ser Ile Ala Leu Asp Lys
1 5 10 15

Ile His Gln Xaa Asp Phe Val Glu Xaa Lys Leu Glu Gly Gly Pro Ser
            20   25   30

Ser Gly Ala Pro Pro Pro Ser
        35

<210> 117
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<220>
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       (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)18-CO
       2H

<220>
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<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 117

Tyr Xaa Glu Gly Thr Xaa Ile Ser Asp Tyr Ser Ile Ala Leu Asp Lys

1 5 10 15

Ile His Gln Xaa Asp Phe Val Glu Xaa Lys Leu Glu Ala Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 118
<211> 39
<212> PRT
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<220>
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<220>
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<223> Ser at position 39 is amidated

<400> 118

Tyr Xaa Glu Gly Thr Xaa Ile Ser Asp Tyr Ser Ile Ala Leu Asp Lys
1 5 10 15

Ile His Gln Xaa Asp Phe Val Glu Xaa Lys Leu Glu Gln Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 119
<211> 39
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<220>
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<220>
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<220>
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<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 119

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Xaa Leu Asp Lys
1 5 10 15

Ile Arg Gln Xaa Asp Phe Val Glu Tyr Lys Leu Glu Gly Gly Pro Ser
            20   25   30

Ser Gly Ala Pro Pro Pro Ser
        35

<210> 120
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<220>
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<220>
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<220>
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       (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)18-CO
       2H

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 120

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Xaa Leu Asp Xaa
1   5   10   15

Ile Arg Gln Xaa Asp Phe Val Glu Tyr Lys Leu Glu Gly Gly Pro Ser
            20   25   30

Ser Gly Ala Pro Pro Pro Ser
        35

<210> 121
<211> 39
<212> PRT
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<220>
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       epsilon-amino group of the Lys side chain with
       (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)18-CO
       2H

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 121

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Xaa Leu Asp Lys
1   5   10   15

Ile His Gln Xaa Asp Phe Val Glu Tyr Lys Leu Glu Ala Gly Pro Ser
            20   25   30

Ser Gly Ala Pro Pro Pro Ser
        35

<210> 122
<211> 39
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<220>
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       epsilon-amino group of the Lys side chain with
       (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)18-CO
       2H

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 122

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Xaa Leu Asp Lys
1   5   10   15

Ile Arg Gln Xaa Asp Phe Val Glu Tyr Lys Leu Glu Ala Gly Pro Ser
            20   25   30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 123
<211> 39
<212> PRT
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<220>
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<222> (6)..(6)
<223> Xaa at position 6 is alpha-methyl-F(2F)

<220>
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<222> (20)..(20)
<223> Xaa at position 29 is Aib

<220>
<221> MISC_FEATURE
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<223> Xaa at position 25 is 4-Pal

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<223> Lys at position 26 is chemically modified by conjugation of the epsilon-amino group of the Lys side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)18-CO 2H

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 123

Tyr Xaa Glu Gly Thr Xaa Ile Ser Asp Tyr Ser Ile Leu Leu Asp Lys
1 5 10 15

Ile His Gln Xaa Asp Phe Val Glu Xaa Lys Leu Glu Gly Gly Pro Ser
            20   25   30

Ser Gly Ala Pro Pro Pro Ser
        35

<210> 124
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<220>
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<222> (25)..(25)
<223> Xaa at position 25 is 4-Pal

<220>
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       epsilon-amino group of the Lys side chain with
       (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)18-CO
       2H

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 124

Tyr Xaa Glu Gly Thr Xaa Ile Ser Asp Tyr Ser Ile Leu Leu Asp Lys
1   5   10   15

Ile His Gln Xaa Asp Phe Val Glu Xaa Lys Leu Glu Ala Gly Pro Ser
            20   25   30

Ser Gly Ala Pro Pro Pro Ser
        35

<210> 125
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<220>
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       (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)18-CO
       2H

<220>
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<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 125

Tyr Xaa Glu Gly Thr Xaa Ile Ser Asp Tyr Ser Ile Leu Leu Asp Lys
1   5   10   15

Ile His Gln Xaa Asp Phe Val Glu Xaa Lys Leu Glu Gln Gly Pro Ser
            20   25   30

Ser Gly Ala Pro Pro Pro Ser
        35

<210> 126
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<220>
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<220>
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       2H

<220>
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<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 126

Tyr Xaa Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Xaa Leu Asp Xaa
1   5   10   15

Ile His Gln Xaa Glu Phe Val Glu Xaa Lys Leu Glu Ala Gly Pro Ser
            20   25   30

Ser Gly Ala Pro Pro Pro Ser
        35