SEQUENCE LISTING

<110> Eli Lilly and Company

<120> METHOD OF USING A GIP/GLP1 CO-AGONIST FOR DIABETES

<130> X21834

<150> US 62/702,180
<151> 2018-07-23

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<151> 2018-10-03

<160> 145

<170> PatentIn version 3.5

<210> 1
<211> 42
<212> PRT
<213> Homo sapiens

<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
<211> 30
<212> PRT
<213> Homo sapiens

<220>
<221> MOD_RES
<222> (30)..(30)
<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> 31
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct; Formula I

<220>
<221> VARIANT
<222> (1)..(1)
<223> Xaa at position 1 is selected from the group consisting of Y, H, D-Tyr, F, desH, and desY, or Xaa at position 1 and Xaa at position 2 combine to form desH-psi[NHCO]-Aib

<220>
<221> MOD_RES
<222> (1)..(1)
<223> The N-terminus of Xaa at position 1 is modified with R1, wherein the modification is selected from the group consisting of Ac and absent.

<220>
<221> VARIANT
<222> (2)..(2)
<223> Xaa at position 2 is selected from the group consisting of Aib, alpha-MeP, A, P, and D-Ala, or Xaa at position 1 combines with Xaa at position 2 to form desH-psi[NHCO]-Aib

<220>
<221> VARIANT
<222> (3)..(3)
<223> Xaa at position 3 is selected from the group of E, N, Aad, and cTA

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

<223> Xaa at position 6 is selected from the group consisting of F, alpha-MeF, and alpha-MeF(2F)

<220>
<221> VARIANT
<222> (10)..(10)
<223> Xaa at position 10 is selected from the group consisting of A, L, H, 3Pal, 4Pal, V, Y, E, alpha-MeF, alpha-MeF(2F), I, alpha-MeY, Q, D-His, D-Tyr, cTA, and K

<220>
<221> VARIANT
<222> (10)..(10)
<223> when Xaa at position 10 is K, then K is chemically modified by conjugation of the epsilon-amino group of the K side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)q-CO2H

<220>
<221> MISC_FEATURE
<222> (10)..(31)
<223> When Xaa is K(2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)q-CO2H at positions 10, 12, 13, 14, 16, 17, 19, 20, 21, 23, 24, 26, 27, 28, 29, 30 or 31, q is 14, 15, 16, 17, 18, 19 or 20.

<220>
<221> VARIANT
<222> (11)..(11)
<223> Xaa at position 11 is selected from the group consisting of S, alpha-MeS, or D-Ser

<220>
<221> VARIANT
<222> (12)..(12)
<223> Xaa at position 12 is selected from the group consisting of I, S, D-Ile, and K

<220>
<221> MOD_RES
<222> (12)..(12)
<223> when Xaa at position 12 is K, then K is chemically modified by conjugation of the epsilon-amino group of the K side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)q-CO2H

<220>
<221> VARIANT
<222> (13)..(13)
<223> Xaa at position 13 is selected from the group consisting of Nle,

Aib, L, alpha-MeL, and K

<220>
<221> MOD_RES
<222> (13)..(13)
<223> when Xaa at position 13 is K, then K is chemically modified by conjugation of the epsilon-amino group of the K side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)q-CO2H

<220>
<221> VARIANT
<222> (14)..(14)
<223> Xaa at position 14 is selected from the group consisting of L and K, wherein K is conjugated to a C16-C22 fatty acid wherein said fatty acid is optionally conjugated to said K via a linker

<220>
<221> VARIANT
<222> (16)..(16)
<223> Xaa at position 16 is selected from the group consisting of E, Orn, Dab, Dap, S, T, H, Aib, alpha-MeK, R, and K

<220>
<221> MOD_RES
<222> (16)..(16)
<223> when Xaa at position 16 is K, then K is optionally chemically modified by conjugation of the epsilon-amino group of the K side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2

-(gamma-Glu)-CO-(CH2)q-CO2H

<220>
<221> VARIANT
<222> (17)..(17)
<223> Xaa at position 17 is selected from the group consisting of K, Q, I, and an amino acid conjugated to a C16-C22 fatty acid wherein said fatty acid is optionally conjugated to said amino acid via a linker

<220>
<221> VARIANT
<222> (19)..(19)
<223> Xaa at position 19 is selected from the group consisting of Q, A, and K

<220>
<221> MOD_RES
<222> (19)..(19)
<223> when Xaa at position 19 is K, then K is chemically modified by

conjugation of the epsilon-amino group of the K side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2

-(gamma-Glu)-CO-(CH2)q-CO2H

<220>
<221> VARIANT
<222> (20)..(20)
<223> Xaa at position 20 is selected from the group consisting of Aib, Q, H, R, K, and alpha-MeK

<220>
<221> MOD_RES
<222> (20)..(20)
<223> when Xaa at position 20 is K, then K is optionally chemically modified by conjugation of the epsilon-amino group of the K side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2

-(gamma-Glu)-CO-(CH2)q-CO2H

<220>
<221> VARIANT
<222> (21)..(21)
<223> Xaa at position 21 is selected from the group consisting of H, Aad, D, Aib, T, A, E, I, and K

<220>
<221> MOD_RES
<222> (21)..(21)
<223> when Xaa at position 21 is K, then K is chemically modified by conjugation of the epsilon-amino group of the K side chain with K(2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)q-CO2H

<220>
<221> VARIANT
<222> (22)..(22)
<223> Xaa at position 22 is selected from the group consisting of F and alpha-MeF

<220>
<221> VARIANT
<222> (23)..(23)
<223> Xaa at position 23 is selected from the group consisting of I, L, A, G, F, H, E, V, and K

<220>
<221> MOD_RES
<222> (23)..(23)
<223> when Xaa at position 23 is K, then K is chemically modified by

conjugation of the epsilon-amino group of the K side chain with K(2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)q-CO2H

<220>
<221> VARIANT
<222> (24)..(24)
<223> Xaa at position 24 is selected from the group consisting of S, Aad, D-Glu, E, Aib, H, V, A, Q, D, P, and K

<220>
<221> MOD_RES
<222> (24)..(24)
<223> when Xaa at position 24 is K, then K is chemically modified by conjugation of the epsilon-amino group of the K side chain with K(2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)q-CO2H

<220>
<221> VARIANT
<222> (25)..(25)
<223> Xaa at position 25 is selected from the group consisting of Y or alpha-MeY

<220>
<221> VARIANT
<222> (26)..(26)
<223> Xaa at position 26 is selected from the group consisting of L, alpha-MeL, and K

<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 K side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)q-CO2H

<220>
<221> VARIANT
<222> (27)..(27)
<223> Xaa at position 27 is selected from the group consisting of L, I, and K

<220>
<221> MOD_RES
<222> (27)..(27)
<223> when Xaa at position 27 is K, then K is chemically modified by conjugation of the epsilon-amino group of the K side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)q-CO2

H

<220>
<221> VARIANT
<222> (28)..(28)
<223> Xaa at position 28 is selected from the group consisting of E, A, S, D-Glu, and K

<220>
<221> MOD_RES
<222> (28)..(28)
<223> when Xaa at position 28 is K, then K is chemically modified by conjugation of the epsilon-amino group of the K side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)q-CO2H

<220>
<221> VARIANT
<222> (29)..(29)
<223> Xaa at position 29 is selected from the group consisting of Aib, G, A, and K

<220>
<221> MOD_RES
<222> (29)..(29)
<223> when Xaa at position 29 is K, then K is chemically modified by conjugation of the epsilon-amino group of the K side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)q-CO2H

<220>
<221> VARIANT
<222> (30)..(30)
<223> Xaa at position 30 is selected from the group consisting of C, G, G-R2, and K, wherein R2 is a modification of the C-terminal group, wherein the modification is NH2 or absent, wherein if X30 is G-R2, then X31 is absent.

<220>
<221> MOD_RES
<222> (30)..(30)
<223> when Xaa at position 30 is K, then K is chemically modified by conjugation of the epsilon-amino group of the K side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)q-CO2H

<220>
<221> VARIANT
<222> (31)..(31)
<223> Xaa at position 31 is absent or is selected from the group

consisting of SEQ ID NO:4, SEQ ID NO:5, SEQ ID:6, SEQ ID NO:7, SEQ ID NO:8, and SEQ ID NO:9

<220>
<221> MISC_FEATURE
<222> (31)..(31)
<223> wherein no more than one of X10, X12, X13, X14, X16, X17, X19, X20, X21, X23, X24, X26, X27, X28, X29, X30, X31, X32, X33, X34, X35, X36, X37, X38, X39, and X40 may be a substituent that contains a fatty acid

<220>
<221> MISC_FEATURE
<222> (31)..(31)
<223> wherein no more than one of X30, X34, X39, and X40 may be C

<220>
<221> MISC_FEATURE
<222> (31)..(31)
<223> wherein if one of X30, X34, X39, and X40 is C, then none of X10, X12, X13, X14, X16, X17, X19, X20, X21, X23, X24, X26, X27, X28, X29, X30, X31, X32, X33, X34, X35, X36, X37, X38, X39, and X40 is a substituent that contains a fatty acid

<220>
<221> MOD_RES
<222> (31)..(31)
<223> Xaa at position 31 is modified with R2, wherein the modification is NH2 to form a C-terminal amide or absent

<400> 3

Xaa Xaa Xaa Gly Thr Xaa Thr Ser Asp Xaa Xaa Xaa Xaa Xaa Asp Xaa
1 5 10 15

Xaa Ala Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
20 25 30

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

<220>
<223> Synthetic construct; SEQ ID NO:4 is PX32X33X34

<220>

<221> VARIANT
<222> (2)..(2)
<223> Xaa at position 2 is S or K, wherein K is chemically modified by conjugation of the epsilon-amino group of the K side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)q-CO2H

<220>
<221> MISC_FEATURE
<222> (2)..(4)
<223> wherein q is selected from the group consisting of 14, 15, 16, 17, 18, 19, and 20.

<220>
<221> VARIANT
<222> (3)..(3)
<223> Xaa at position 3 is S or K, wherein K is chemically modified by conjugation of the epsilon-amino group of the K side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)q-CO2H

<220>
<221> VARIANT
<222> (4)..(4)
<223> Xaa at position 4 is G, C or K, wherein K is chemically modified by conjugation of the epsilon-amino group of the K side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2

-(gamma-Glu)-CO-(CH2)q-CO2H

<220>
<221> MOD_RES
<222> (4)..(4)
<223> The C-terminal group of Xaa at position 4 is modified with R2, wherein the modification is NH2 to form a C-terminal amide or absent

<400> 4

Pro Xaa Xaa Xaa
1

<210> 5
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct; SEQ ID NO:5 is PX32X33X34X35X36X37X38X39

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

<220>
<221> MISC_FEATURE
<222> (2)..(9)
<223> wherein q is selected from the group consisting of 14, 15, 16, 17, 18, 19, and 20.

<220>
<221> VARIANT
<222> (3)..(3)
<223> Xaa at position 3 is S or K, wherein K is chemically modified by conjugation of the epsilon-amino group of the K side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)q-CO2H

<220>
<221> VARIANT
<222> (4)..(4)
<223> Xaa at position 4 is G, C or K, wherein K is chemically modified by conjugation of the epsilon-amino group of the K side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2

-(gamma-Glu)-CO-(CH2)q-CO2H

<220>
<221> VARIANT
<222> (5)..(5)
<223> Xaa at position 5 is A or K, wherein K is chemically modified by conjugation of the epsilon-amino group of the K side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)q-CO2H

<220>
<221> VARIANT
<222> (6)..(6)
<223> Xaa at position 6 is P or K, wherein K is chemically modified by conjugation of the epsilon-amino group of the K side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)q-CO2H

<220>

<221> VARIANT
<222> (7)..(7)
<223> Xaa at position 7 is P or K, wherein K is chemically modified by conjugation of the epsilon-amino group of the K side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)q-CO2H

<220>
<221> VARIANT
<222> (8)..(8)
<223> Xaa at position 8 is P or K, wherein K is chemically modified by conjugation of the epsilon-amino group of the K side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)q-CO2H

<220>
<221> VARIANT
<222> (9)..(9)
<223> Xaa at position 9 is C, S or K, wherein K is chemically modified by conjugation of the epsilon-amino group of the K side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2

-(gamma-Glu)-CO-(CH2)q-CO2H

<220>
<221> MOD_RES
<222> (9)..(9)
<223> The C-terminal group of Xaa at position 9 is modified with R2, wherein the modification is NH2 to from a C-terminal amide or absent

<400> 5

Pro Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5

<210> 6
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct; SEQ ID NO:6 is PX32X33X34X35X36X37X38X39X40

<220>
<221> VARIANT
<222> (2)..(2)
<223> Xaa at position 2 is S or K, wherein K is chemically modified by

conjugation of the epsilon-amino group of the K side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)q-CO2H

<220>
<221> MISC_FEATURE
<222> (2)..(10)
<223> wherein q is selected from the group consisting of 14, 15, 16, 17, 18, 19, and 20.

<220>
<221> VARIANT
<222> (3)..(3)
<223> Xaa at position 3 is S or K, wherein K is chemically modified by conjugation of the epsilon-amino group of the K side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)q-CO2H

<220>
<221> VARIANT
<222> (4)..(4)
<223> Xaa at position 4 is G, C or K, wherein K is chemically modified by conjugation of the epsilon-amino group of the K side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2

-(gamma-Glu)-CO-(CH2)q-CO2H

<220>
<221> VARIANT
<222> (5)..(5)
<223> Xaa at position 5 is A or K, wherein K is chemically modified by conjugation of the epsilon-amino group of the K side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)q-CO2H

<220>
<221> VARIANT
<222> (6)..(6)
<223> Xaa at position 6 is P or K, wherein K is chemically modified by conjugation of the epsilon-amino group of the K side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)q-CO2H

<220>
<221> VARIANT
<222> (7)..(7)
<223> Xaa at position 7 is P or K, wherein K is chemically modified by conjugation of the epsilon-amino group of the K side chain with K(2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)q-CO2H

<220>
<221> VARIANT
<222> (8)..(8)
<223> Xaa at position 8 is P or K, wherein K is chemically modified by conjugation of the epsilon-amino group of the K side chain with K(2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)q-CO 2H

<220>
<221> VARIANT
<222> (9)..(9)
<223> Xaa at position 9 is C, S or K, wherein K is chemically modified by conjugation of the epsilon-amino group of the K side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2

-(gamma-Glu)-CO-(CH2)q-CO2H

<220>
<221> VARIANT
<222> (10)..(10)
<223> Xaa at position 10 is C or K, wherein K is chemically modified by conjugation of the epsilon-amino group of the K side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)q-CO2 H

<220>
<221> MOD_RES
<222> (10)..(10)
<223> The C-terminal group of Xaa at position 10 is modified with R2, wherein the modification is NH2 to form a C-terminal amide or absent

<400> 6

Pro Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10

<210> 7
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct; SEQ ID NO:7 is K[(2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)q-C O2 H]X32X33X34

<220>
<221> MOD_RES
<222> (1)..(1)
<223> K is chemically modified by conjugation of the epsilon-amino group of the K side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)q-CO2H

<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> wherein q is selected from the group consisting of 14, 15, 16, 17, 18, 19, and 20

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

<220>
<221> VARIANT
<222> (3)..(3)
<223> Xaa at position 3 is S or K, wherein K is chemically modified by conjugation of the epsilon-amino group of the K side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)q-CO2H

<220>
<221> VARIANT
<222> (4)..(4)
<223> Xaa at position 4 is G, C or K, wherein K is chemically modified by conjugation of the epsilon-amino group of the K side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2

-(gamma-Glu)-CO-(CH2)q-CO2H

<220>
<221> MOD_RES
<222> (4)..(4)
<223> The C-terminal group of Xaa at position 4 is modified with R2, wherein the modification is NH2 to form a C-terminal amide or absent

<400> 7

Lys Xaa Xaa Xaa
1

<210> 8
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct; SEQ ID NO:8 is
K[(2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)q-C
O2H]X32X33X34X35X36X37X38X39

<220>
<221> MOD_RES
<222> (1)..(1)
<223> K is chemically modified by conjugation of the epsilon-amino
group of the K side chain with
(2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)q-CO2
H

<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> wherein q is selected from the group consisting of 14, 15, 16,
17, 18, 19, and 20

<220>
<221> VARIANT
<222> (2)..(2)
<223> Xaa at position 2 is S or K, wherein K is chemically modified by
conjugation of the epsilon-amino group of the K side chain with
(2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)q-CO2
H

<220>
<221> VARIANT
<222> (3)..(3)
<223> Xaa at position 3 is S or K, wherein K is chemically modified by
conjugation of the epsilon-amino group of the K side chain with
(2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)q-CO2
H

<220>
<221> VARIANT
<222> (4)..(4)
<223> Xaa at position 4 is G, C or K, wherein K is chemically modified
by conjugation of the epsilon-amino group of the K side chain
with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2

-(gamma-Glu)-CO-(CH2)q-CO2H

<220>
<221> VARIANT
<222> (5)..(5)
<223> Xaa at position 5 is A or K, wherein K is chemically modified by conjugation of the epsilon-amino group of the K side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)q-CO2H

<220>
<221> VARIANT
<222> (6)..(6)
<223> Xaa at position 6 is P or K, wherein K is chemically modified by conjugation of the epsilon-amino group of the K side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)q-CO2H

<220>
<221> VARIANT
<222> (7)..(7)
<223> Xaa at position 7 is P or K, wherein K is chemically modified by conjugation of the epsilon-amino group of the K side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)q-CO2H

<220>
<221> VARIANT
<222> (8)..(8)
<223> Xaa at position 8 is P or K, wherein K is chemically modified by conjugation of the epsilon-amino group of the K side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)q-CO2H

<220>
<221> VARIANT
<222> (9)..(9)
<223> Xaa at position 9 is C, S or K, wherein K is chemically modified by conjugation of the epsilon-amino group of the K side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)q-CO2

<220>
<221> MOD_RES
<222> (9)..(9)
<223> The C-terminal group of Xaa at position 9 is modified with R2, wherein the modification is NH2 to form a C-terminal amide or absent

<400> 8

Lys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5

<210> 9
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct; SEQ ID NO:9 is K[(2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)q-CO2H]X32X33X34X35X36X37X38X39X40

<220>
<221> MOD_RES
<222> (1)..(1)
<223> K is chemically modified by conjugation of the epsilon-amino group of the K side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)q-CO2H

<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> wherein q is selected from the group consisting of 14, 15, 16, 17, 18, 19, and 20

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

<220>
<221> VARIANT
<222> (3)..(3)
<223> Xaa at position 3 is S or K, wherein K is chemically modified by conjugation of the epsilon-amino group of the K side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)q-CO2H

<220>
<221> VARIANT
<222> (4)..(4)

<223> Xaa at position 4 is G, C or K, wherein K is chemically modified by conjugation of the epsilon-amino group of the K side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2

-(gamma-Glu)-CO-(CH2)q-CO2H

<220>
<221> VARIANT
<222> (5)..(5)
<223> Xaa at position 5 is A or K, wherein K is chemically modified by conjugation of the epsilon-amino group of the K side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)q-CO2H

<220>
<221> VARIANT
<222> (6)..(6)
<223> Xaa at position 6 is P or K, wherein K is chemically modified by conjugation of the epsilon-amino group of the K side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)q-CO2H

<220>
<221> VARIANT
<222> (7)..(7)
<223> Xaa at position 7 is P or K, wherein K is chemically modified by conjugation of the epsilon-amino group of the K side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)q-CO2H

<220>
<221> VARIANT
<222> (8)..(8)
<223> Xaa at position 8 is P or K, wherein K is chemically modified by conjugation of the epsilon-amino group of the K side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)q-CO2H

<220>
<221> VARIANT
<222> (9)..(9)
<223> Xaa at position 9 is C, S or K, wherein K is chemically modified by conjugation of the epsilon-amino group of the K side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2

-(gamma-Glu)-CO-(CH2)q-CO2H

<220>
<221> VARIANT
<222> (10)..(10)

<223> Xaa at position 10 is C or K, wherein K is chemically modified by conjugation of the epsilon-amino group of the K side chain with (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2

-(gamma-Glu)-CO-(CH2)q-CO2H

<220>
<221> MOD_RES
<222> (10)..(10)
<223> The C-terminal group of Xaa at position 10 is modified with R2, wherein the modification is NH2 to form a C-terminal amide or absent

<400> 9

Lys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10

<210> 10
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

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

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

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

<220>
<221> MOD_RES
<222> (17)..(17)
<223> K at position 17 is chemically modified by conjugation of the epsilon-amino group of the K 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> (24)..(24)
<223> Xaa at position 24 is D-Glu

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

<400> 10

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

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

Ser Gly Ala Pro Pro Pro Ser
        35

<210> 11
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

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

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

<220>

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

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

<220>
<221> MOD_RES
<222> (17)..(17)
<223> K at position 17 is chemically modified by conjugation of the epsilon-amino group of the K 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> MISC_FEATURE
<222> (24)..(24)
<223> Xaa at position 24 is D-Glu

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

<400> 11

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 12
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

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

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

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

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

<220>
<221> MOD_RES
<222> (17)..(17)
<223> K at position 17 is chemically modified by conjugation of the epsilon-amino group of the K 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> (24)..(24)
<223> Xaa at position 24 is D-Glu

<220>
<221> MISC_FEATURE
<222> (39)..(39)
<223> The Serine at position 39 is amidated

<400> 12

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

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

Ser Gly Ala Pro Pro Pro Ser
        35

<210> 13
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

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

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

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Xaa at position 10 is 4Pal

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

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

<220>
<221> MOD_RES
<222> (17)..(17)
<223> K at position 17 is chemically modified by conjugation of the

epsilon-amino group of the K 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> MISC_FEATURE
<222> (24)..(24)
<223> Xaa at position 24 is D-Glu

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

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

<400> 13

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 14
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> MISC_FEATURE
<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> 14

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

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

Ser Gly Ala Pro Pro Pro Ser
        35

<210> 15
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> MISC_FEATURE
<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> 15

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 16
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<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>
<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> 16

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 17
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<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>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa at position 20 is alpha-methyl-Lys

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

<400> 17

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 18
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<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>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa at position 20 is alpha-methyl-Lys

<220>
<221> MISC_FEATURE
<222> (29)..(29)
<223> Xaa at position 29 is Aib

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

<400> 18

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 19
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

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

<223> Xaa at position 2 is Aib

<220>
<221> MOD_RES
<222> (12)..(12)
<223> Lys at position 12 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> 19

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 20
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

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

<220>
<221> MOD_RES

<222> (13)..(13)
<223> Lys at position 13 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> 20

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 21
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

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

<220>
<221> MOD_RES
<222> (16)..(16)
<223> Lys at position 16 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> 21

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 22
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

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

<220>
<221> MOD_RES
<222> (19)..(19)
<223> Lys at position 19 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> 22

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 23
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

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

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

<220>
<221> MOD_RES
<222> (21)..(21)
<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> 23

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 24
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

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

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

<220>
<221> MOD_RES
<222> (23)..(23)
<223> Lys at position 23 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> 24

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 25
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

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

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

<220>
<221> MOD_RES
<222> (24)..(24)
<223> Lys at position 24 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> 25

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

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

Ser Gly Ala Pro Pro Pro Ser
        35

<210> 26
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

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

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

<220>
<221> MOD_RES
<222> (28)..(28)
<223> Lys at position 28 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> 26

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

Ile Ala Gln Xaa Ala Phe Ile Glu Tyr Leu Ile Lys 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>
<223> Synthetic Construct

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

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

<220>
<221> MOD_RES
<222> (32)..(32)
<223> Lys at position 32 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> 27

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 28
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

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

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

<220>
<221> MOD_RES
<222> (37)..(37)
<223> Lys at position 37 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> 28

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

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

Ser Gly Ala Pro Lys Pro Ser
35

<210> 29
<211> 39

<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

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

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

<220>
<221> MOD_RES
<222> (38)..(38)
<223> Lys at position 38 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> 29

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

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

Ser Gly Ala Pro Pro Lys Ser
35

<210> 30
<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>
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<222> (39)..(39)
<223> Lys at position 39 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> Lys at position 39 is amidated

<400> 30

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

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

Ser Gly Ala Pro Pro Pro Lys
35

<210> 31
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
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<220>

<221> MISC_FEATURE
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<223> Xaa at position 2 is Aib

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

<220>
<221> MOD_RES
<222> (34)..(34)
<223> Gly at position 34 is amidated

<400> 31

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

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

Ser Gly

<210> 32
<211> 30
<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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<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> (30)..(30)
<223> Gly at position 30 is amidated

<400> 32

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

Lys Ala Gln Xaa Ala Phe Ile Glu Tyr Leu Ile Glu Gly Gly
20 25 30

<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 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>
<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 Thr Ser Asp Tyr Ser Ile Xaa Leu Asp Ser
1 5 10 15

Lys Ala Gln Xaa Ala Phe Ile Glu Tyr Leu Ile Glu 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>
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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 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>
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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> 34

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 35
<211> 30
<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> 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> (30)..(30)
<223> Gly at position 30 is amidated

<400> 35

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

Lys Ala Gln Xaa Ala Phe Ile Glu Tyr Leu Ile Glu Gly Gly
20 25 30

<210> 36
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

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

<220>
<221> MOD_RES
<222> (30)..(30)
<223> Gly at position 30 is amidated

<400> 36

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

Lys Ala Gln Xaa Ala Phe Ile Glu Tyr Leu Ile Glu Gly Gly
20 25 30

<210> 37
<211> 30
<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> 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> (30)..(30)
<223> Gly at position 30 is amidated

<400> 37

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

Lys Ala Gln Xaa Ala Phe Ile Glu Tyr Leu Ile Glu Gly Gly
20 25 30

<210> 38
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

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

<220>
<221> MOD_RES
<222> (30)..(30)
<223> Gly at position 30 is amidated

<400> 38

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

Lys Ala Gln Xaa Ala Phe Ile Glu Tyr Leu Ile Glu Gly Gly
20 25 30

<210> 39
<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> 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 Phe Thr Ser Asp Tyr Ser Ile Xaa Leu Asp Glu
1 5 10 15

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

Ser Gly Ala Pro Pro Pro Ser
35

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

<220>
<223> Synthetic Construct

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

<220>
<221> MISC_FEATURE
<222> (11)..(11)
<223> Xaa at position 11 is alpha-methyl-Ser

<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> 40

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

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

Ser Gly Ala Pro Pro Pro Ser
        35

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

<220>
<223> Synthetic Construct

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

<400> 41

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 42
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

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

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

<220>
<221> MOD_RES
<222> (28)..(28)
<223> Lys at position 28 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> (30)..(30)
<223> Gly at position 30 is amidated

<400> 42

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

Ile Ala Gln Xaa Ala Phe Ile Glu Tyr Leu Ile Lys Gly Gly
20 25 30

<210> 43
<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)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> 43

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

Lys Ala Gln Xaa Ala Phe Ile Glu Tyr Leu Ile 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>
<223> Synthetic Construct

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

<220>
<221> MISC_FEATURE
<222> (11)..(11)
<223> Xaa at position 11 is D-Ser

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

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

Ser Gly Ala Pro Pro Pro Ser
        35

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

<220>
<223> Synthetic Construct

<220>
<221> MISC_FEATURE
<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> MISC_FEATURE
<222> (28)..(28)

<223> Xaa at position 28 is D-Glu

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

<400> 45

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

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

Ser Gly Ala Pro Pro Pro Ser
        35

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

<220>
<223> Synthetic Construct

<220>
<221> MISC_FEATURE
<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> MISC_FEATURE

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

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

<400> 46

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

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

Ser Gly Ala Pro Pro Pro Ser
35

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

<220>
<223> Synthetic Construct

<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> 47

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

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

Ser Gly Ala Pro Pro Pro Ser
        35

<210> 48
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

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

<220>
<221> MISC_FEATURE
<222> (3)..(3)
<223> Xaa at position 3 is Aad

<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> 48

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 49
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> MISC_FEATURE
<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> (28)..(28)
<223> Lys at position 28 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> (30)..(30)
<223> Gly at position 30 is amidated

<400> 49

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

Ile Ala Gln Xaa Ala Phe Ile Glu Tyr Leu Ile Lys Gly Gly
20 25 30

<210> 50
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

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

<220>
<221> MOD_RES
<222> (28)..(28)
<223> Lys at position 28 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> (30)..(30)
<223> Gly at position 30 is amidated

<400> 50

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

Ile Ala Gln Xaa Ala Phe Ile Glu Tyr Leu Ile Lys Gly Gly
            20   25   30

<210> 51
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

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

<220>
<221> MISC_FEATURE
<222> (6)..(6)
<223> Xaa at position 13 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> MOD_RES
<222> (30)..(30)
<223> Gly at position 30 is amidated

<400> 51

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

Lys Ala Gln Xaa Ala Phe Ile Glu Tyr Leu Ile Glu Gly Gly
            20   25   30

<210> 52
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> MISC_FEATURE
<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> (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> MOD_RES
<222> (30)..(30)
<223> Gly at position 30 is amidated

<400> 52

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

1 5 10 15

Lys Ala Gln Xaa Ala Phe Ile Glu Tyr Leu Ile Glu Gly Gly
20 25 30

<210> 53
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> MISC_FEATURE
<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> (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> MOD_RES
<222> (30)..(30)
<223> Gly at position 30 is amidated

<400> 53

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

Lys Ala Gln Xaa Glu Phe Ile Glu Tyr Leu Ile Glu Gly Gly
            20 25 30

<210> 54
<211> 30
<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>
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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)16-CO
       2H

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

<220>
<221> MOD_RES
<222> (30)..(30)
<223> Gly at position 30 is amidated

<400> 54

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

Lys Ala Gln Xaa Glu Phe Ile Glu Tyr Leu Ile Glu Gly Gly
20 25 30

<210> 55
<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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<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)-AOC-(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> 55

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

Lys Ala Gln Xaa Ala Phe Ile Glu Tyr Leu Ile Glu Gly Gly Pro Ser

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            20                  25                  30

Ser Gly Ala Pro Pro Pro Ser
        35


<210>  56
<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>  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
       AOC-(2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)-(gamma-Glu)-CO-(CH2)18
       -CO2H

<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>  56

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


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


Ser Gly Ala Pro Pro Pro Ser
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35

<210> 57
<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

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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)-(gamma-Glu)-(Trx)-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> 57

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 58

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

<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)-(Trx)-(gamma-Glu)-CO-(CH2)18-CO2H

<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> 58

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 59
<211> 39
<212> PRT
<213> Artificial Sequence

<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)-(epsilon-Lys)-(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> 59

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

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

Ser Gly Ala Pro Pro Pro Ser
        35

<210> 60
<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> (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-(epsilon-Lys)-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> 60

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 61
<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> 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)-(epsilon-Lys)-(epsilon-Lys
)-CO-(CH2)18-CO2H

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa at position 2 is Aib

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

<400> 61

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

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

Ser Gly Ala Pro Pro Pro Ser
        35

<210> 62
<211> 39
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<220>
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<220>
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<222> (6)..(6)

<223> Xaa at position 6 is alpha-methyl-Phe

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

<400> 62

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 63
<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> 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> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 63

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 64
<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> (3)..(3)
<223> Xaa at position 3 is cTA

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

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

<400> 64

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 65
<211> 34
<212> PRT
<213> Artificial Sequence

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

<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-CO2H

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

<220>
<221> MOD_RES
<222> (34)..(34)
<223> Gly at position 34 is amidated

<400> 65

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

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

Ser Gly

<210> 66
<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

<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)2-CO-(CH2)18-C
       O2H

<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> 66

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 67
<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> 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-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> 67

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 68
<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-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> 68

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

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

Ser Gly Ala Pro Pro Pro Ser
        35

<210> 69
<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 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> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 69

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 70
<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

<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> (21)..(21)
<223> Xaa at position 21 is Aad

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

<400> 70

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 71
<211> 39
<212> PRT
<213> Artificial Sequence

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

<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

<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> 71

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

Lys Ala Gln Xaa Thr Phe Ile Glu Tyr Leu Ile Glu Gly 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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<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> (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> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is amidated

<400> 72

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

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

Ser Gly Ala Pro Pro Pro Ser
        35

<210> 73

<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

<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> (21)..(21)
<223> Xaa at position 21 is Aib

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

<400> 73

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

Lys Ala Gln Xaa Xaa Phe Ile Glu Tyr Leu Ile 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>
<223> Synthetic Construct

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

<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> (21)..(21)
<223> Xaa at position 21 is Aib

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

<223> Ser at position 39 is amidated

<400> 74

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

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

Ser Gly Ala Pro Pro Pro Ser
        35

<210> 75
<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 6 is alpha-methyl-Phe(2F)

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

<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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<223> Xaa at position 20 is Aib

<220>
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<223> Xaa at position 24 is Aad

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

<400> 75

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

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

Ser Gly Ala Pro Pro Pro Ser
        35

<210> 76
<211> 39
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<220>
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<223> Xaa at position 6 is alpha-methyl-Phe(2F)

<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> 76

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

Lys Ala Gln Xaa Glu Phe Ile Ala Tyr Leu Ile Glu Gly 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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<223> Xaa at position 6 is alpha-methyl-Phe(2F)

<220>
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<222> (13)..(13)
<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> 77

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 78
<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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<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>
<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> 78

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

Lys Ala Gln Xaa Glu Phe Ile Ser Tyr Leu Ile 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>
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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>
<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> 79

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

Lys Ala Gln Xaa Glu Phe Ile Pro Tyr Leu Ile Glu Gly 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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<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> (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> (24)..(24)
<223> Xaa at position 24 is Aib

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

<400> 80

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

Lys Ala Gln Xaa Glu Phe Ile Xaa Tyr Leu Ile 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>
<223> Synthetic Construct

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

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

<400> 81

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 82
<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> 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-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> 82

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

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

Ser Gly Ala Pro Pro Pro Ser
        35

<210> 83
<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> (6)..(6)
<223> Xaa at position 6 is alpha-methyl-Phe(2F)

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Xaa at position 10 is cTA

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

<400> 83

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 84
<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> MISC_FEATURE
<222> (10)..(10)
<223> Xaa at position 10 is 3Pal

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

<400> 84

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 85
<211> 34
<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> 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> (24)..(24)
<223> Xaa at position 24 is D-Glu

<220>
<221> MOD_RES
<222> (34)..(34)
<223> Gly at position 34 is amidated

<400> 85

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

Lys Ala Gln Xaa Thr Phe Ile Xaa Tyr Leu Ile Glu Gly Gly Pro Ser

20 25 30

Ser Gly

<210> 86
<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> 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> (24)..(24)
<223> Xaa at position 24 is D-Glu

<220>

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

<400> 86

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

Lys Ala Gln Xaa Thr Phe Ile Xaa Tyr Leu Ile 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>
<221> MISC_FEATURE
<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> (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)16-CO2H

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

<400> 87

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

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

Ser Gly Ala Pro Pro Pro Ser
        35

<210> 88
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

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

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

<400> 88

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 89
<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> 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 Dab

<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 a Aib

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

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

<400> 89

Tyr Xaa Glu Gly Thr Xaa Thr Ser Asp His Ser Ile Xaa Leu Asp Xaa

1 5 10 15

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 90
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

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

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

<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> (24)..(24)
<223> Xaa at position 24 is D-Glu

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

<400> 90

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

Lys Ala Gln Xaa Thr Phe Ile Xaa Tyr Leu Ile Glu 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>
<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> 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-CO-(CH2)18-CO2H

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

<400> 91

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

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

Ser Gly Ala Pro Pro Pro Ser
        35

<210> 92
<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> (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-(epsilon-Lys)-CO-(CH2)16-CO2H

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

<400> 92

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 93
<211> 39

<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<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> MISC_FEATURE
<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)14-CO 2H

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

<400> 93

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

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

Ser Gly Ala Pro Pro Pro Ser
        35

<210> 94
<211> 34
<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> 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)16-CO
       2H

<220>
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<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> (34)..(34)
<223> Gly at position 34 is amidated

<400> 94

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

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

Ser Gly

<210> 95
<211> 30
<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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<223> Xaa at position 6 is alpha-methyl-Phe(2F)

<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)16-CO

2H

<220>
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<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> (30)..(30)
<223> Gly at position 30 is amidated

<400> 95

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

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

<210> 96
<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>
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<222> (10)..(10)
<223> Xaa at position 10 is 3Pal

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

<400> 96

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 97
<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> MISC_FEATURE
<222> (10)..(10)
<223> Xaa at position 10 is 4Pal

<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> (24)..(24)
<223> Xaa at position 24 is D-Glu

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

<400> 97

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

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

Ser Gly Ala Pro Pro Pro Ser
        35

<210> 98
<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> 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> (24)..(24)
<223> Xaa at position 24 is D-Glu

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

<400> 98

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

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

Ser Gly Ala Pro Pro Pro Ser
        35

<210> 99
<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> 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> (24)..(24)
<223> Xaa at position 24 is D-Glu

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

<400> 99

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

Lys Ala Gln Xaa Glu Phe Ile Xaa Tyr Leu Ile 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>
<221> MISC_FEATURE
<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> (10)..(10)
<223> Xaa at position 10 is 4Pal

<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> (24)..(24)
<223> Xaa at position 24 is Aib

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

<400> 100

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 101
<211> 34
<212> PRT

<213> Artificial Sequence

<220>
<223> Synthetic Construct

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

<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> MOD_RES
<222> (34)..(34)
<223> Gly at position 34 is amidated

<400> 101

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

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

Ser Gly

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

<220>
<223> Synthetic Construct

<220>
<221> MISC_FEATURE
<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> (10)..(10)
<223> Xaa at position 10 is 4Pal

<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)-(gamma-Glu)-(2-[2-(2-Amino
       -ethoxy)-ethoxy]-acetyl)-CO-(CH2)18-CO2H

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

<400> 102

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 103
<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 alpha-methyl-Phe(2F)

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Xaa at position 10 is 4Pal

<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> (24)..(24)
<223> Xaa at position 24 is D-Glu

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

<400> 103

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

Lys Ala Gln Xaa Glu Phe Ile Xaa Tyr Leu Ile 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>
<223> Synthetic Construct

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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> (10)..(10)
<223> Xaa at position 10 is 4Pal

<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)16-CO 2H

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

<400> 104

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

Lys Ala Gln Xaa Glu Phe Ile Xaa Tyr Leu Ile 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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<220>
<221> MISC_FEATURE
<222> (6)..(6)
<223> Xaa at position 6 is alpha-methyl-Phe(2F)

<220>
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<222> (10)..(10)
<223> Xaa at position 10 is 4Pal

<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-CO-(CH2)16-CO2H

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

<400> 105

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

Lys Ala Gln Xaa Glu Phe Ile Xaa Tyr Leu Ile 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> (6)..(6)
<223> Xaa at position 6 is alpha-methyl-Phe(2F)

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Xaa at position 10 is 4Pal

<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-CO-(CH2)18-CO2H

<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> (39)..(39)

<223> Ser at position 39 is amidated

<400> 106

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

Lys Ala Gln Xaa Glu Phe Ile Xaa Tyr Leu Ile 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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<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> (10)..(10)
<223> Xaa at position 10 is 4Pal

<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-(epsilon-Lys)-CO-(CH2)18-CO2H

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

<400> 107

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

Lys Ala Gln Xaa Glu Phe Ile Xaa Tyr Leu Ile 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>
<223> Synthetic Construct

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

<220>
<221> MISC_FEATURE
<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>
<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)14-CO 2H

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

<400> 108

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 109
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

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

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

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

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

<400> 109

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

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

Ser Gly Ala Pro Pro Pro Ser
        35

<210> 110
<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> 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 Dap

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

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

<400> 110

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

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

Ser Gly Ala Pro Pro Pro Ser
        35

<210> 111
<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> 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)-(gamma-Glu)-(2-[2-(2-Amino-ethoxy)-ethoxy]-acetyl)-CO-(CH2)18-CO2H

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

<400> 111

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 112
<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> MISC_FEATURE
<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> (24)..(24)
<223> Xaa at position 24 is D-Glu

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

<400> 112

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 113
<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

<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)16-CO 2H

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

<400> 113

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

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

Ser Gly Ala Pro Pro Pro Ser
        35

<210> 114
<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>
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<222> (6)..(6)
<223> Xaa at position 6 is alpha-methyl-Phe(2F)

<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-CO-(CH2)16-CO2H

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

<400> 114

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 115
<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> 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-CO-(CH2)18-CO2H

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

<400> 115

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 116
<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> 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-(epsilon-Lys)-CO-(CH2)18-CO2H

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

<400> 116

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 117
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> MISC_FEATURE

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

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

<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> (24)..(24)
<223> Xaa at position 24 is D-Glu

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

<400> 117

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 118
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

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

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

<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> (24)..(24)

<223> Xaa at position 24 is D-Glu

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

<400> 118

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

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

Ser Gly Ala Pro Pro Pro Ser
        35

<210> 119
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> MISC_FEATURE
<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> (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)16-CO
2H

<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> (34)..(34)
<223> Gly at position 34 is amidated

<400> 119

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

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

Ser Gly

<210> 120
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> MISC_FEATURE
<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> (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)16-CO 2H

<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> (30)..(30)
<223> Gly at position 30 is amidated

<400> 120

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

Lys Ala Gln Xaa Glu Phe Ile Xaa Tyr Leu Ile Glu Gly Gly
20 25 30

<210> 121
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> MISC_FEATURE

<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> (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)16-CO 2H

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

<400> 121

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 122
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

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

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

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

<223> Ser at position 39 is amidated

<400> 122

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

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

Ser Gly Ala Pro Pro Pro Ser
        35

<210> 123
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> MISC_FEATURE
<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> (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> 123

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

Lys Ala Gln Xaa Glu Phe Ile Glu Xaa Leu Ile 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>
<223> Synthetic Construct

<220>
<221> MISC_FEATURE
<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> (13)..(13)
<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)18-CO 2H

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

<400> 124

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 125
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> MISC_FEATURE
<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> (13)..(13)
<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)18-CO
       2H

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

<400> 125

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

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

Ser Gly Ala Pro Pro Pro Ser
        35

<210> 126

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

<220>
<223> Synthetic Construct

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

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

<400> 126

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 127
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

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

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

<223> Ser at position 39 is amidated

<400> 127

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 128
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

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

<220>
<221> MOD_RES
<222> (34)..(34)
<223> Gly at position 34 is amidated

<400> 128

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

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

Ser Gly

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<223> Ser at position 39 is amidated

<400> 129

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

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

Ser Gly Ala Pro Pro Pro Ser
35

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<220>
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       (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)16-CO
       2H

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<223> Xaa at position 24 is D-Glu

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

<400> 130

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

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

Ser Gly Ala Pro Pro Pro Ser
        35

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<220>
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<220>
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<220>
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<223> Xaa at position 16 is Orn

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       (2-[2-(2-amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)16-CO
       2H

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<223> Xaa at position 24 is D-Glu

<220>
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<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> 131

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

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

Ser Gly Ala Pro Pro Pro Ser
        35

<210> 132
<211> 39
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<220>
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<222> (24)..(24)
<223> Xaa at position 24 is D-Glu

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

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

<400> 132

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 133
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<223> Xaa at position 13 is alpha-methyl-Leu

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<220>
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<222> (24)..(24)
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<222> (25)..(25)
<223> Xaa at position 25 is alpha-methyl-Tyr

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

<400> 133

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

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

Ser Gly Ala Pro Pro Pro Ser
        35

<210> 134
<211> 39
<212> PRT
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<220>
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<220>
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<220>
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<222> (25)..(25)
<223> Xaa at position 25 is alpha-methyl-Tyr

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

<400> 134

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 135
<211> 39

<212> PRT
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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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<222> (24)..(24)
<223> Xaa at position 24 is D-Glu

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

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

<400> 135

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

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

Ser Gly Ala Pro Pro Pro Ser
        35

<210> 136
<211> 39
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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)16-CO 2H

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

<220>
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<223> Xaa at position 24 is D-Glu

<220>
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<223> Xaa at position 25 is alpha-methyl-Tyr

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

<400> 136

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 137
<211> 39
<212> PRT
<213> Artificial Sequence

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

<220>
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<220>
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<220>
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<222> (24)..(24)
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<220>
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<222> (25)..(25)
<223> Xaa at position 25 is alpha-methyl-Tyr

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

<400> 137

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

1 5 10 15

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 138
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<220>
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<220>
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<220>
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<220>
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<222> (20)..(20)
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<220>
<221> MISC_FEATURE
<222> (24)..(24)
<223> Xaa at position 24 is D-Glu

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

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

<400> 138

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

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

Ser Gly Ala Pro Pro Pro Ser
        35

<210> 139
<211> 39
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<220>
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<220>
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<222> (16)..(16)
<223> Xaa at position 16 is Orn

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

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

<400> 139

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 140
<211> 39

<212> PRT
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<220>
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<222> (16)..(16)
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<220>
<221> MOD_RES
<222> (17)..(17)
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<220>
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<223> Xaa at position 24 is D-Glu

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

<400> 140

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

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

Ser Gly Ala Pro Pro Pro Ser
        35

<210> 141
<211> 39
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<220>
<221> MISC_FEATURE
<222> (6)..(6)
<223> Xaa at position 6 is alpha-methyl-Phe(2F)

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

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

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

<400> 141

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

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

Ser Gly Ala Pro Pro Pro Ser
        35

<210> 142
<211> 39
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<220>
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<220>

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

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

<400> 142

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 143
<211> 39
<212> PRT
<213> Artificial Sequence

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

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Xaa at position 10 is 4Pal

<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
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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-(epsilon-Lys)-CO-(CH2)18-CO2H

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<223> Xaa at position 20 is Aib

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<221> MISC_FEATURE
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<220>
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<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> 143

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

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

Ser Gly Ala Pro Pro Pro Ser
        35

<210> 144
<211> 34
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<220>
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<223> Xaa at position 10 is 4Pal

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

<220>
<221> MOD_RES
<222> (34)..(34)
<223> Gly at position 34 is amidated

<400> 144

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

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

Ser Gly

<210> 145
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> MISC_FEATURE
<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> (10)..(10)
<223> Xaa at position 10 is 4Pal

<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 13 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)16-CO 2H

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

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

<220>
<221> MOD_RES
<222> (30)..(30)
<223> Gly at position 30 is amidated

<400> 145

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

Lys Ala Gln Xaa Glu Phe Ile Xaa Xaa Leu Ile Glu Gly Gly
            20   25   30