SEQUENCE LISTING

<110> Bhandari, Ashok
Mattheakis, Larry C.
Patel, Dinesh V.

<120> NOVEL a4b7 PEPTIDE DIMER ANTAGONISTS

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<150> 61/807,714
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<150> 14/229,784
<151> 2014-03-28

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<170> PatentIn version 3.5

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D-Orn, D-Dap, D-Dab, Bip, Ala(3,3 diphenyl), Biphenyl-Ala, D-
Phe,
D-Trp, D-Tyr, D-Glu, D-His, D-Lys, 3,3-diPhe, Beta-HTrp,
F(4-CF3), O-Me-Tyr, 4-Me-Phe, Phe(2,4-Cl2), Phe(3,4-Cl2),

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1 5 10

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<220>
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D-Orn, D-Dap, D-Dab, Bip, Ala(3,3 diphenyl), Biphenyl-Ala, D-
Phe,
D-Trp, D-Tyr, D-Glu, D-His, D-Lys, 3,3-diPhe, Beta-HTrp,
F(4-CF3), O-Me-Tyr, 4-Me-Phe, Phe(2,4-Cl2), Phe(3,4-Cl2),

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<223> ACETYLATION

<220>
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2-Nal, 1-Nal, D-Asp, Bip, Beta-HPhe, Beta-Glu, D-Tyr, Beta-HGlu

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1 5 10

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<211> 9
<212> PRT
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1 5

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1 5

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1   5

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1 5 10

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1 5 10

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1   5   10

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1 5 10

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<223> Disulfide bond between Cys at position 1 and Xaa at position 7

<220>

<221> MOD_RES
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<223> N(alpha)METHYLATION

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<223> Xaa can be any naturally occurring amino acid

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<223> Xaa can be any naturally occurring amino acid

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<223> Xaa can be any naturally occurring amino acid

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<223> Pen

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<223> Xaa can be any naturally occurring amino acid

<220>
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<223> ACETYLATION

<220>
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<220>
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<222> (10)..(10)
<223> D-Lys, Dap, Dab, Orn, D-Orn, D-Dab, D-Dap

<400> 12

Cys Arg Xaa Asp Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10

<210> 13
<211> 10
<212> PRT
<213> Unknown

<220>
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<220>
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<223> ACETYLATION

<220>
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<222> (1)..(7)
<223> Disulfide bond between Xaa at position 1 and Cys at position 7

<220>
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<222> (2)..(2)
<223> N(alpha)METHYLATION

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<220>
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<222> (10)..(10)
<223> D-Lys, Dap, Dab, Orn, D-Orn, D-Dab, D-Dap

<400> 13

Xaa Arg Xaa Asp Xaa Xaa Cys Xaa Xaa Xaa
1 5 10

<210> 14

<211> 10
<212> PRT
<213> Unknown

<220>
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<223> Disulfide bond between Xaa at position 1 and Xaa at position 7

<220>
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<223> N(alpha)METHYLATION

<220>
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<222> (10)..(10)
<223> D-Lys, Dap, Dab, Orn, D-Orn, D-Dab, D-Dap

<400> 14

Xaa Arg Xaa Asp Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10

<210> 15
<211> 11
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<213> Unknown

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<220>
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<223> Disulfide bond between Cys at position 2 and Cys at position 8

<220>
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<223> N(alpha)METHYLATION

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<223> Xaa can be any naturally occurring amino acid

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<223> Xaa can be any naturally occurring amino acid

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<223> ACETYLATION

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<223> D-Lys, Dap, Dab, Orn, D-Orn, D-Dab, D-Dap

<400> 15

Xaa Cys Arg Xaa Asp Xaa Xaa Cys Xaa Xaa Xaa
1 5 10

<210> 16
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<223> ACETYLATION

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<223> Disulfide bond between Cys at position 2 and Xaa at position 8

<220>
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<223> N(alpha)METHYLATION

<220>
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<223> Pen

<220>
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<220>
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<222> (11)..(11)
<223> D-Lys, Dap, Dab, Orn, D-Orn, D-Dab, D-Dap

<400> 16

Xaa Cys Arg Xaa Asp Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10

<210> 17
<211> 11
<212> PRT
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<220>
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<223> ACETYLATION

<220>
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<222> (2)..(8)
<223> Disulfide bond between Xaa at position 2 and Cys at position 8

<220>
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<222> (2)..(2)
<223> Pen

<220>
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<223> Xaa can be any naturally occurring amino acid

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<223> Xaa can be any naturally occurring amino acid

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<220>
<221> MOD_RES
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<223> D-Lys, Dap, Dab, Orn, D-Orn, D-Dab, D-Dap

<400> 17

Xaa Xaa Arg Xaa Asp Xaa Xaa Cys Xaa Xaa Xaa
1 5 10

<210> 18
<211> 11
<212> PRT
<213> Unknown

<220>
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<220>
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<222> (2)..(8)
<223> Disulfide bond between Xaa at position 2 and Xaa at position 8

<220>
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<222> (2)..(2)
<223> Pen

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<223> ACETYLATION

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<223> D-Lys, Dap, Dab, Orn, D-Orn, D-Dab, D-Dap

<400> 18

Xaa Xaa Arg Xaa Asp Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10

<210> 19
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<212> PRT
<213> Unknown

<220>
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<223> Xaa can be any naturally occurring amino acid

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<223> Xaa can be any naturally occurring amino acid

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<223> N(alpha)METHYLATION

<220>
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<223> D-Lys, Dap, Dab, Orn, D-Orn, D-Dab, D-Dap

<220>
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<222> (12)..(12)

<223> ACETYLATION

<400> 19

Xaa Xaa Cys Arg Xaa Asp Xaa Xaa Cys Xaa Xaa Xaa
1 5 10

<210> 20
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<212> PRT
<213> Unknown

<220>
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<220>
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<220>
<221> MOD_RES
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<223> ACETYLATION

<220>
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<222> (3)..(9)
<223> Disulfide bond between Cys at position 3 and Xaa at position 9

<220>
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<220>
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<222> (7)..(8)
<223> Xaa can be any naturally occurring amino acid

<220>
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<223> Pen

<220>
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<223> Xaa can be any naturally occurring amino acid

<220>

<221> MOD_RES
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<223> N(alpha)METHYLATION

<220>
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<223> D-Lys, Dap, Dab, Orn, D-Orn, D-Dab, D-Dap

<220>
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<400> 20

Xaa Xaa Cys Arg Xaa Asp Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10

<210> 21
<211> 12
<212> PRT
<213> Unknown

<220>
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<220>
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<223> Xaa can be any naturally occurring amino acid

<220>
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<223> ACETYLATION

<220>
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<223> Pen

<220>
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<222> (3)..(9)
<223> Disulfide bond between Xaa at position 3 and Cys at position 9

<220>
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<223> N(alpha)METHYLATION

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<223> Xaa can be any naturally occurring amino acid

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<220>
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<223> D-Lys, Dap, Dab, Orn, D-Orn, D-Dab, D-Dap

<220>
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<400> 21

Xaa Xaa Xaa Arg Xaa Asp Xaa Xaa Cys Xaa Xaa Xaa
1 5 10

<210> 22
<211> 12
<212> PRT
<213> Unknown

<220>
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<223> ACETYLATION

<220>
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<222> (3)..(3)
<223> Pen

<220>
<221> DISULFID

<222> (3)..(9)
<223> Disulfide bond between Xaa at position 3 and Xaa at position 9

<220>
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<222> (4)..(4)
<223> N(alpha)METHYLATION

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<220>
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<223> Pen

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<223> N(alpha)METHYLATION

<220>
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<223> D-Lys, Dap, Dab, Orn, D-Orn, D-Dab, D-Dap

<220>
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<400> 22

Xaa Xaa Xaa Arg Xaa Asp Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10

<210> 23
<211> 13
<212> PRT
<213> Unknown

<220>
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<220>
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<220>
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<223> ACETYLATION

<220>
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<222> (4)..(10)
<223> Disulfide bond between Cys at position 4 and Cys at position 10

<220>
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<223> N(alpha)METHYLATION

<220>
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<223> Xaa can be any naturally occurring amino acid

<220>
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<223> Xaa can be any naturally occurring amino acid

<220>
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<223> Xaa can be any naturally occurring amino acid

<220>
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<220>
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<223> D-Lys, Dap, Dab, Orn, D-Orn, D-Dab, D-Dap

<220>
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<400> 23

Xaa Xaa Xaa Cys Arg Xaa Asp Xaa Xaa Cys Xaa Xaa Xaa
1 5 10

<210> 24
<211> 13
<212> PRT
<213> Unknown

<220>
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<220>
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<220>
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<220>
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<222> (5)..(5)
<223> N(alpha)METHYLATION

<220>
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<220>
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<223> Xaa can be any naturally occurring amino acid

<220>
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<223> Pen

<220>
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<220>
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<223> D-Lys, Dap, Dab, Orn, D-Orn, D-Dab, D-Dap

<220>
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<223> ACETYLATION

<400> 24

Xaa Xaa Xaa Cys Arg Xaa Asp Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10

<210> 25
<211> 13
<212> PRT
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<220>
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<220>
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<223> ACETYLATION

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<223> Pen

<220>
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<223> Disulfide bond between Xaa at position 4 and Cys at position 10

<220>
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<220>
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<220>
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<223> D-Lys, Dap, Dab, Orn, D-Orn, D-Dab, D-Dap

<400> 25

Xaa Xaa Xaa Xaa Arg Xaa Asp Xaa Xaa Cys Xaa Xaa Xaa
1 5 10

<210> 26
<211> 13
<212> PRT
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<220>
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<223> ACETYLATION

<220>
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<220>
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<220>
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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> N(alpha)METHYLATION

<220>
<221> MOD_RES
<222> (13)..(13)
<223> D-Lys, Dap, Dab, Orn, D-Orn, D-Dab, D-Dap

<400> 26

Xaa Xaa Xaa Xaa Arg Xaa Asp Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10

<210> 27
<211> 8
<212> PRT
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<220>
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<220>
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<222> (2)..(8)
<223> Disulfide bond between Cys at position 2 and Cys at position 8

<220>
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<220>
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<220>
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<223> Xaa can be any naturally occurring amino acid

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<223> ACETYLATION

<220>
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<223> N(alpha)METHYLATION

<220>
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<223> D-Lys, Dap, Dab, Orn, D-Orn, D-Dab, D-Dap

<400> 27

Xaa Cys Arg Xaa Asp Xaa Xaa Cys
1 5

<210> 28
<211> 9
<212> PRT
<213> Unknown

<220>
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<220>
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<223> ACETYLATION

<220>
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<222> (2)..(8)
<223> Disulfide bond between Cys at position 2 and Xaa at position 8

<220>
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<220>
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<223> ACETYLATION

<220>
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<220>
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<223> N(alpha)METHYLATION

<220>
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<223> D-Lys, Dap, Dab, Orn, D-Orn, D-Dab, D-Dap

<400> 28

Xaa Cys Arg Xaa Asp Xaa Xaa Xaa Xaa
1 5

<210> 29
<211> 9
<212> PRT
<213> Unknown

<220>
<223> Synthetic Construct

<220>
<221> VARIANT
<222> (1)..(1)
<223> Xaa can be any naturally occurring amino acid

<220>
<221> MOD_RES
<222> (1)..(1)
<223> ACETYLATION

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Pen

<220>
<221> DISULFID
<222> (2)..(8)
<223> Disulfide bond between Xaa at position 2 and Cys at position 8

<220>
<221> MOD_RES
<222> (3)..(3)
<223> N(alpha)METHYLATION

<220>
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<222> (4)..(4)
<223> Xaa can be any naturally occurring amino acid

<220>
<221> VARIANT
<222> (6)..(7)
<223> Xaa can be any naturally occurring amino acid

<220>
<221> MOD_RES
<222> (9)..(9)
<223> ACETYLATION

<220>
<221> VARIANT
<222> (9)..(9)
<223> Xaa can be any naturally occurring amino acid

<220>
<221> MOD_RES
<222> (9)..(9)
<223> N(alpha)METHYLATION

<220>
<221> MOD_RES
<222> (9)..(9)
<223> D-Lys, Dap, Dab, Orn, D-Orn, D-Dab, D-Dap

<400> 29

Xaa Xaa Arg Xaa Asp Xaa Xaa Cys Xaa
1   5

<210> 30
<211> 9
<212> PRT
<213> Unknown

<220>
<223> Synthetic Construct

<220>
<221> VARIANT
<222> (1)..(1)
<223> Xaa can be any naturally occurring amino acid

<220>
<221> MOD_RES
<222> (1)..(1)
<223> ACETYLATION

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Pen

<220>
<221> DISULFID
<222> (2)..(8)
<223> Disulfide bond between Xaa at position 2 and Xaa at position 8

<220>
<221> MOD_RES
<222> (3)..(3)
<223> N(alpha)METHYLATION

<220>
<221> VARIANT
<222> (4)..(4)
<223> Xaa can be any naturally occurring amino acid

<220>
<221> VARIANT
<222> (6)..(7)
<223> Xaa can be any naturally occurring amino acid

<220>
<221> MOD_RES
<222> (8)..(8)
<223> Pen

<220>
<221> MOD_RES
<222> (9)..(9)
<223> ACETYLATION

<220>
<221> VARIANT
<222> (9)..(9)
<223> Xaa can be any naturally occurring amino acid

<220>
<221> MOD_RES
<222> (9)..(9)
<223> N(alpha)METHYLATION

<220>
<221> MOD_RES
<222> (9)..(9)
<223> D-Lys, Dap, Dab, Orn, D-Orn, D-Dab, D-Dap

<400> 30

Xaa Xaa Arg Xaa Asp Xaa Xaa Xaa Xaa
1 5

<210> 31
<211> 10
<212> PRT
<213> Unknown

<220>
<223> Synthetic Construct

<220>
<221> VARIANT
<222> (1)..(2)
<223> Xaa can be any naturally occurring amino acid

<220>
<221> MOD_RES
<222> (1)..(1)
<223> ACETYLATION

<220>
<221> DISULFID
<222> (3)..(9)
<223> Disulfide bond between Cys at position 3 and Cys at position 9

<220>
<221> MOD_RES
<222> (4)..(4)
<223> N(alpha)METHYLATION

<220>
<221> VARIANT
<222> (5)..(5)
<223> Xaa can be any naturally occurring amino acid

<220>
<221> VARIANT

<222> (7)..(8)
<223> Xaa can be any naturally occurring amino acid

<220>
<221> VARIANT
<222> (10)..(10)
<223> Xaa can be any naturally occurring amino acid

<220>
<221> MOD_RES
<222> (10)..(10)
<223> N(alpha)METHYLATION

<220>
<221> MOD_RES
<222> (10)..(10)
<223> D-Lys, Dap, Dab, Orn, D-Orn, D-Dab, D-Dap

<220>
<221> MOD_RES
<222> (10)..(10)
<223> ACETYLATION

<400> 31

Xaa Xaa Cys Arg Xaa Asp Xaa Xaa Cys Xaa
1 5 10

<210> 32
<211> 10
<212> PRT
<213> Unknown

<220>
<223> Synthetic Construct

<220>
<221> VARIANT
<222> (1)..(2)
<223> Xaa can be any naturally occurring amino acid

<220>
<221> MOD_RES
<222> (1)..(1)
<223> ACETYLATION

<220>
<221> DISULFID
<222> (3)..(9)
<223> Disulfide bond between Cys at position 3 and Xaa at position 9

<220>
<221> MOD_RES
<222> (4)..(4)
<223> N(alpha)METHYLATION

<220>
<221> VARIANT
<222> (5)..(5)
<223> Xaa can be any naturally occurring amino acid

<220>
<221> VARIANT
<222> (7)..(8)
<223> Xaa can be any naturally occurring amino acid

<220>
<221> MOD_RES
<222> (9)..(9)
<223> Pen

<220>
<221> VARIANT
<222> (10)..(10)
<223> Xaa can be any naturally occurring amino acid

<220>
<221> MOD_RES
<222> (10)..(10)
<223> ACETYLATION

<220>
<221> MOD_RES
<222> (10)..(10)
<223> N(alpha)METHYLATION

<220>
<221> MOD_RES
<222> (10)..(10)
<223> D-Lys, Dap, Dab, Orn, D-Orn, D-Dab, D-Dap

<400> 32

Xaa Xaa Cys Arg Xaa Asp Xaa Xaa Xaa Xaa
1 5 10

<210> 33
<211> 10
<212> PRT
<213> Unknown

<220>
<223> Synthetic Construct

<220>
<221> VARIANT
<222> (1)..(2)
<223> Xaa can be any naturally occurring amino acid

<220>
<221> MOD_RES
<222> (1)..(1)

<223> ACETYLATION

<220>
<221> MOD_RES
<222> (3)..(3)
<223> Pen

<220>
<221> DISULFID
<222> (3)..(9)
<223> Disulfide bond between Xaa at position 3 and Cys at position 9

<220>
<221> MOD_RES
<222> (4)..(4)
<223> N(alpha)METHYLATION

<220>
<221> VARIANT
<222> (5)..(5)
<223> Xaa can be any naturally occurring amino acid

<220>
<221> VARIANT
<222> (7)..(8)
<223> Xaa can be any naturally occurring amino acid

<220>
<221> VARIANT
<222> (10)..(10)
<223> Xaa can be any naturally occurring amino acid

<220>
<221> MOD_RES
<222> (10)..(10)
<223> ACETYLATION

<220>
<221> MOD_RES
<222> (10)..(10)
<223> N(alpha)METHYLATION

<220>
<221> MOD_RES
<222> (10)..(10)
<223> D-Lys, Dap, Dab, Orn, D-Orn, D-Dab, D-Dap

<400> 33

Xaa Xaa Xaa Arg Xaa Asp Xaa Xaa Cys Xaa
1 5 10

<210> 34
<211> 10
<212> PRT
<213> Unknown

<220>
<223> Synthetic Construct

<220>
<221> VARIANT
<222> (1)..(2)
<223> Xaa can be any naturally occurring amino acid

<220>
<221> MOD_RES
<222> (1)..(1)
<223> ACETYLATION

<220>
<221> MOD_RES
<222> (3)..(3)
<223> Pen

<220>
<221> DISULFID
<222> (3)..(9)
<223> Disulfide bond between Xaa at position 3 and Xaa at position 9

<220>
<221> MOD_RES
<222> (4)..(4)
<223> N(alpha)METHYLATION

<220>
<221> VARIANT
<222> (5)..(5)
<223> Xaa can be any naturally occurring amino acid

<220>
<221> VARIANT
<222> (7)..(8)
<223> Xaa can be any naturally occurring amino acid

<220>
<221> MOD_RES
<222> (9)..(9)
<223> Pen

<220>
<221> VARIANT
<222> (10)..(10)
<223> Xaa can be any naturally occurring amino acid

<220>
<221> MOD_RES
<222> (10)..(10)
<223> ACETYLATION

<220>
<221> MOD_RES
<222> (10)..(10)
<223> N(alpha)METHYLATION

<220>
<221> MOD_RES
<222> (10)..(10)
<223> D-Lys, Dap, Dab, Orn, D-Orn, D-Dab, D-Dap

<400> 34

Xaa Xaa Xaa Arg Xaa Asp Xaa Xaa Xaa Xaa
1   5   10

<210> 35
<211> 11
<212> PRT
<213> Unknown

<220>
<223> Synthetic Construct

<220>
<221> VARIANT
<222> (1)..(3)
<223> Xaa can be any naturally occurring amino acid

<220>
<221> MOD_RES
<222> (1)..(1)
<223> ACETYLATION

<220>
<221> DISULFID
<222> (4)..(10)
<223> Disulfide bond between Cys at position 4 and Cys at position 10

<220>
<221> MOD_RES
<222> (5)..(5)
<223> N(alpha)METHYLATION

<220>
<221> VARIANT
<222> (6)..(6)
<223> Xaa can be any naturally occurring amino acid

<220>
<221> VARIANT
<222> (8)..(9)
<223> Xaa can be any naturally occurring amino acid

<220>
<221> VARIANT
<222> (11)..(11)
<223> Xaa can be any naturally occurring amino acid

<220>
<221> MOD_RES

<222> (11)..(11)
<223> N(alpha)METHYLATION

<220>
<221> MOD_RES
<222> (11)..(11)
<223> D-Lys, Dap, Dab, Orn, D-Orn, D-Dab, D-Dap

<220>
<221> MOD_RES
<222> (11)..(11)
<223> ACETYLATION

<400> 35

Xaa Xaa Xaa Cys Arg Xaa Asp Xaa Xaa Cys Xaa
1 5 10

<210> 36
<211> 11
<212> PRT
<213> Unknown

<220>
<223> Synthetic Construct

<220>
<221> VARIANT
<222> (1)..(3)
<223> Xaa can be any naturally occurring amino acid

<220>
<221> MOD_RES
<222> (1)..(1)
<223> ACETYLATION

<220>
<221> DISULFID
<222> (4)..(10)
<223> Disulfide bond between Cys at position 4 and Xaa at position 10

<220>
<221> MOD_RES
<222> (5)..(5)
<223> N(alpha)METHYLATION

<220>
<221> VARIANT
<222> (6)..(6)
<223> Xaa can be any naturally occurring amino acid

<220>
<221> VARIANT
<222> (8)..(9)
<223> Xaa can be any naturally occurring amino acid

<220>
<221> MOD_RES
<222> (10)..(10)
<223> Pen

<220>
<221> VARIANT
<222> (11)..(11)
<223> Xaa can be any naturally occurring amino acid

<220>
<221> MOD_RES
<222> (11)..(11)
<223> ACETYLATION

<220>
<221> MOD_RES
<222> (11)..(11)
<223> N(alpha)METHYLATION

<220>
<221> MOD_RES
<222> (11)..(11)
<223> D-Lys, Dap, Dab, Orn, D-Orn, D-Dab, D-Dap

<400> 36

Xaa Xaa Xaa Cys Arg Xaa Asp Xaa Xaa Xaa Xaa
1 5 10

<210> 37
<211> 11
<212> PRT
<213> Unknown

<220>
<223> Synthetic Construct

<220>
<221> VARIANT
<222> (1)..(3)
<223> Xaa can be any naturally occurring amino acid

<220>
<221> MOD_RES
<222> (1)..(1)
<223> ACETYLATION

<220>
<221> MOD_RES
<222> (4)..(4)
<223> Pen

<220>
<221> DISULFID
<222> (4)..(10)

<223> Disulfide bond between Xaa at position 4 and Cys at position 10

<220>
<221> MOD_RES
<222> (5)..(5)
<223> N(alpha)METHYLATION

<220>
<221> VARIANT
<222> (6)..(6)
<223> Xaa can be any naturally occurring amino acid

<220>
<221> VARIANT
<222> (8)..(9)
<223> Xaa can be any naturally occurring amino acid

<220>
<221> VARIANT
<222> (11)..(11)
<223> Xaa can be any naturally occurring amino acid

<220>
<221> MOD_RES
<222> (11)..(11)
<223> ACETYLATION

<220>
<221> MOD_RES
<222> (11)..(11)
<223> N(alpha)METHYLATION

<220>
<221> MOD_RES
<222> (11)..(11)
<223> D-Lys, Dap, Dab, Orn, D-Orn, D-Dab, D-Dap

<400> 37

Xaa Xaa Xaa Xaa Arg Xaa Asp Xaa Xaa Cys Xaa
1 5 10

<210> 38
<211> 11
<212> PRT
<213> Unknown

<220>
<223> Synthetic Construct

<220>
<221> VARIANT
<222> (1)..(3)
<223> Xaa can be any naturally occurring amino acid

<220>

<221> MOD_RES
<222> (1)..(1)
<223> ACETYLATION

<220>
<221> MOD_RES
<222> (4)..(4)
<223> Pen

<220>
<221> DISULFID
<222> (4)..(10)
<223> Disulfide bond between Xaa at position 4 and Xaa at position 10

<220>
<221> MOD_RES
<222> (5)..(5)
<223> N(alpha)METHYLATION

<220>
<221> VARIANT
<222> (6)..(6)
<223> Xaa can be any naturally occurring amino acid

<220>
<221> VARIANT
<222> (8)..(9)
<223> Xaa can be any naturally occurring amino acid

<220>
<221> MOD_RES
<222> (10)..(10)
<223> Pen

<220>
<221> MOD_RES
<222> (11)..(11)
<223> ACETYLATION

<220>
<221> VARIANT
<222> (11)..(11)
<223> Xaa can be any naturally occurring amino acid

<220>
<221> MOD_RES
<222> (11)..(11)
<223> N(alpha)METHYLATION

<220>
<221> MOD_RES
<222> (11)..(11)
<223> D-Lys, Dap, Dab, Orn, D-Orn, D-Dab, D-Dap

<400> 38

Xaa Xaa Xaa Xaa Arg Xaa Asp Xaa Xaa Xaa Xaa
1 5 10

<210> 39
<211> 8
<212> PRT
<213> Unknown

<220>
<223> Synthetic Construct

<220>
<221> MOD_RES
<222> (1)..(1)
<223> ACETYLATION

<220>
<221> DISULFID
<222> (1)..(7)
<223> Disulfide bond between Cys at position 1 and Cys at position 7

<220>
<221> VARIANT
<222> (2)..(2)
<223> Arg, Tyr

<400> 39

Cys Xaa Ser Asp Thr Leu Cys Lys
1 5

<210> 40
<211> 10
<212> PRT
<213> Unknown

<220>
<223> Synthetic Construct

<220>
<221> MOD_RES
<222> (1)..(1)
<223> ACETYLATION

<220>
<221> DISULFID
<222> (1)..(7)
<223> Disulfide bond between Cys at position 1 and Cys at position 7

<400> 40

Cys Arg Ser Asp Thr Leu Cys Gly Glu Lys
1 5 10

<210> 41

<211> 8
<212> PRT
<213> Unknown

<220>
<223> Synthetic Construct

<220>
<221> MOD_RES
<222> (1)..(1)
<223> ACETYLATION

<220>
<221> DISULFID
<222> (2)..(8)
<223> Disulfide bond between Cys at position 2 and Cys at position 8

<400> 41

Lys Cys Arg Ser Asp Thr Leu Cys
1 5

<210> 42
<211> 10
<212> PRT
<213> Unknown

<220>
<223> Synthetic Construct

<220>
<221> MOD_RES
<222> (1)..(1)
<223> ACETYLATION

<220>
<221> DISULFID
<222> (2)..(8)
<223> Disulfide bond between Cys at position 2 and Cys at position 8

<400> 42

Lys Cys Arg Ser Asp Thr Leu Cys Gly Glu
1 5 10

<210> 43
<211> 9
<212> PRT
<213> Unknown

<220>
<223> Synthetic Construct

<220>
<221> MOD_RES
<222> (1)..(1)
<223> ACETYLATION

<220>
<221> DISULFID
<222> (1)..(7)
<223> Disulfide bond between Cys at position 1 and Cys at position 7

<220>
<221> MOD_RES
<222> (2)..(2)
<223> METHYLATION: Arg-Me-sym; Arg-Me-asym

<400> 43

Cys Arg Ser Asp Thr Leu Cys Gly Glu
1   5

<210> 44
<211> 9
<212> PRT
<213> Unknown

<220>
<223> Synthetic Construct

<220>
<221> MOD_RES
<222> (1)..(1)
<223> ACETYLATION

<220>
<221> DISULFID
<222> (1)..(7)
<223> Disulfide bond between Cys at position 1 and Cys at position 7

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Dab, Cit, Cav, Dap

<400> 44

Cys Xaa Ser Asp Thr Leu Cys Gly Glu
1   5

<210> 45
<211> 9
<212> PRT
<213> Unknown

<220>
<223> Synthetic Construct

<220>
<221> MOD_RES
<222> (1)..(1)
<223> ACETYLATION

<220>
<221> DISULFID
<222> (1)..(7)
<223> Disulfide bond between Cys at position 1 and Cys at position 7

<400> 45

Cys His Ser Asp Thr Leu Cys Gly Glu
1   5

<210> 46
<211> 7
<212> PRT
<213> Unknown

<220>
<223> Synthetic Construct

<220>
<221> DISULFID
<222> (1)..(7)
<223> Disulfide bond between Cys at position 1 and Cys at position 7

<220>
<221> MOD_RES
<222> (2)..(2)
<223> N(alpha)METHYLATION

<400> 46

Cys Arg Ser Asp Thr Leu Cys
1   5

<210> 47
<211> 8
<212> PRT
<213> Unknown

<220>
<223> Synthetic Construct

<220>
<221> MOD_RES
<222> (1)..(1)
<223> ACETYLATION

<220>

<221> DISULFID
<222> (1)..(7)
<223> Disulfide bond between Cys at position 1 and Cys at position 7

<220>
<221> MOD_RES
<222> (2)..(2)
<223> N(alpha)METHYLATION, Arg-Me-sym, Arg-Me-asym

<220>
<221> MOD_RES
<222> (8)..(8)
<223> Dap, Dab, D-Lys

<220>
<221> MOD_RES
<222> (8)..(8)
<223> ACETYLATION

<400> 47

Cys Arg Ser Asp Thr Leu Cys Xaa
1 5

<210> 48
<211> 8
<212> PRT
<213> Unknown

<220>
<223> Synthetic Construct

<220>
<221> MOD_RES
<222> (1)..(1)
<223> ACETYLATION

<220>
<221> DISULFID
<222> (1)..(7)
<223> Disulfide bond between Cys at position 1 and Cys at position 7

<220>
<221> MOD_RES
<222> (2)..(2)
<223> N(alpha)METHYLATION

<220>
<221> MOD_RES
<222> (8)..(8)
<223> N(alpha)METHYLATION

<400> 48

Cys Arg Ser Asp Thr Leu Cys Lys
1 5

<210> 49
<211> 8
<212> PRT
<213> Unknown

<220>
<223> Synthetic Construct

<220>
<221> DISULFID
<222> (1)..(7)
<223> Disulfide bond between Cys at position 1 and Cys at position 7

<220>
<221> MOD_RES
<222> (2)..(2)
<223> N(alpha)METHYLATION

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Guan, 4-Guan, Dap, Dab, Phe(4-NH2)

<220>
<221> MOD_RES
<222> (8)..(8)
<223> Dap, Dab, D-Lys

<220>
<221> MOD_RES
<222> (8)..(8)
<223> ACETYLATION

<400> 49

Cys Xaa Ser Asp Thr Leu Cys Xaa
1 5

<210> 50
<211> 7
<212> PRT
<213> Unknown

<220>
<223> Synthetic Construct

<220>
<221> DISULFID
<222> (1)..(7)
<223> Disulfide bond between Cys at position 1 and Cys at position 7

<220>
<221> MOD_RES

<222> (2)..(2)
<223> N(alpha)METHYLATION

<400> 50

Cys Arg Ser Asp Thr Leu Cys
1 5

<210> 51
<211> 10
<212> PRT
<213> Unknown

<220>
<223> Synthetic Construct

<220>
<221> MOD_RES
<222> (1)..(1)
<223> ACETYLATION

<220>
<221> DISULFID
<222> (1)..(7)
<223> Disulfide bond between Cys at position 1 and Cys at position 7

<220>
<221> MOD_RES
<222> (2)..(2)
<223> N(alpha)METHYLATION

<220>
<221> MOD_RES
<222> (2)..(2)
<223> 4-Guan

<220>
<221> VARIANT
<222> (2)..(2)
<223> Arg

<220>
<221> MOD_RES
<222> (10)..(10)
<223> N(alpha)METHYLATION

<400> 51

Cys Xaa Ser Asp Thr Leu Cys Gly Glu Lys
1 5 10

<210> 52
<211> 9
<212> PRT
<213> Unknown

<220>
<223> Synthetic Construct

<220>
<221> MOD_RES
<222> (1)..(1)
<223> ACETYLATION

<220>
<221> DISULFID
<222> (1)..(7)
<223> Disulfide bond between Cys at position 1 and Cys at position 7

<220>
<221> MOD_RES
<222> (5)..(6)
<223> N(alpha)METHYLATION

<400> 52

Cys His Ser Asp Thr Leu Cys Gly Glu
1   5

<210> 53
<211> 10
<212> PRT
<213> Unknown

<220>
<223> Synthetic Construct

<220>
<221> MOD_RES
<222> (1)..(1)
<223> ACETYLATION

<220>
<221> DISULFID
<222> (1)..(7)
<223> Disulfide bond between Cys at position 1 and Cys at position 7

<220>
<221> MOD_RES
<222> (8)..(8)
<223> Sar

<400> 53

Cys Arg Ser Asp Thr Leu Cys Xaa Glu Lys
1   5   10

<210> 54
<211> 10

<212> PRT
<213> Unknown

<220>
<223> Synthetic Construct

<220>
<221> MOD_RES
<222> (1)..(1)
<223> ACETYLATION

<220>
<221> DISULFID
<222> (1)..(7)
<223> Disulfide bond between Cys at position 1 and Cys at position 7

<220>
<221> MOD_RES
<222> (2)..(2)
<223> N(alpha)METHYLATION

<220>
<221> MOD_RES
<222> (10)..(10)
<223> D-Lys, Dab, Dab (2-Me-trifluorobutyl), Dab (trifluorpentyl), Dab (Acetyl), Dab (Octonyl)

<400> 54

Cys Arg Ser Asp Thr Leu Cys Gly Glu Xaa
1 5 10

<210> 55
<211> 8
<212> PRT
<213> Unknown

<220>
<223> Synthetic Construct

<220>
<221> MOD_RES
<222> (1)..(1)
<223> ACETYLATION

<220>
<221> DISULFID
<222> (1)..(7)
<223> Disulfide bond between Cys at position 1 and Xaa at position 7

<220>
<221> MOD_RES
<222> (2)..(2)
<223> N(alpha)METHYLATION

<220>
<221> MOD_RES
<222> (7)..(7)
<223> Pen

<220>
<221> MOD_RES
<222> (8)..(8)
<223> D-Lys

<400> 55

Cys Arg Ser Asp Thr Leu Xaa Xaa
1   5

<210> 56
<211> 8
<212> PRT
<213> Unknown

<220>
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<400> 56

Xaa Cys Arg Ser Asp Thr Leu Xaa
1   5

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<223> Pen

<220>
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<400> 57

Cys Arg Ser Asp Thr Leu Xaa Trp Xaa
1 5

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<220>
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<400> 58

Cys Arg Ser Asp Thr Leu Xaa Tyr Xaa
1 5

<210> 59
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<400> 59

Arg Cys Arg Ser Asp Thr Leu Xaa
1 5

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<400> 60

Leu Cys Arg Ser Asp Thr Leu Xaa
1 5

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<400> 61

Lys Leu Cys Arg Ser Asp Thr Leu Xaa
1 5

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<211> 8
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<400> 62

His Cys Arg Ser Asp Thr Leu Xaa
1 5

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<400> 63

Lys His Cys Arg Ser Asp Thr Leu Xaa
1 5

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Glu Cys Arg Ser Asp Thr Leu Xaa
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Lys Glu Cys Arg Ser Asp Thr Xaa
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<400> 66

Lys Trp Cys Arg Ser Asp Thr Leu Xaa
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Pro Cys Arg Ser Asp Thr Leu Xaa
1 5

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<400> 68

Lys Pro Cys Arg Ser Asp Thr Leu Xaa
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Lys Ser Cys Arg Ser Asp Thr Leu Xaa
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Lys Asn Cys Arg Ser Asp Thr Leu Xaa
1 5

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<400> 71

Lys Tyr Cys Arg Ser Asp Thr Leu Xaa
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<223> Pen

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<400> 72

Cys Arg Ser Asp Thr Leu Xaa Leu Xaa
1   5

<210> 73
<211> 9
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<223> Pen

<220>
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<400> 73

Cys Arg Ser Asp Thr Leu Xaa His Xaa
1 5

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<223> Pen

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<400> 74

Cys Arg Ser Asp Thr Leu Xaa Glu Xaa
1 5

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<223> Pen

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Cys Arg Ser Asp Thr Leu Xaa Tyr Lys
1   5

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<400> 76

Cys Arg Ser Asp Thr Leu Xaa Trp Lys
1 5

<210> 77
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<400> 77

Cys Arg Ser Asp Thr Leu Xaa Arg Xaa
1 5

<210> 78
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<400> 78

Cys Arg Ser Asp Thr Leu Xaa Pro Xaa
1 5

<210> 79
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<400> 79

Cys Arg Ser Asp Thr Leu Xaa Ser Xaa
1 5

<210> 80
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<400> 80

Cys Arg Ser Asp Thr Leu Xaa Asn Xaa
1 5

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<400> 81

Arg Cys Arg Ser Asp Thr Leu Xaa Xaa Lys
1   5   10

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<400> 82

Glu Cys Arg Ser Asp Thr Leu Xaa Xaa Lys
1 5 10

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<400> 83

Arg Cys Arg Ser Asp Thr Leu Xaa Trp Lys
1 5 10

<210> 84
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<400> 84

Glu Cys Arg Ser Asp Thr Leu Xaa Trp Lys
1 5 10

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Arg Cys Arg Ser Asp Thr Leu Xaa Tyr Lys
1   5   10

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Glu Cys Arg Ser Asp Thr Leu Xaa Tyr Lys
1   5   10

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<220>
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Tyr Cys Arg Ser Asp Thr Leu Xaa
1 5

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<400> 88

Cys Arg Ser Asp Thr Leu Xaa Xaa Xaa
1 5

<210> 89
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<212> PRT
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Cys Arg Ser Asp Thr Leu Xaa His Lys
1 5

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<220>
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<220>

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<400> 90

Xaa Arg Ser Asp Thr Leu Xaa His Xaa
1 5

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<400> 91

Xaa Arg Ser Asp Thr Leu Xaa Tyr Xaa
1 5

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<400> 92

Xaa Arg Ser Asp Thr Leu Xaa Trp Xaa
1 5

<210> 93
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<220>

<223> Synthetic Construct

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<223> Pen

<220>
<221> MOD_RES
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<223> ACETYLATION

<220>
<221> DISULFID
<222> (1)..(7)
<223> Disulfide bond between Xaa at position 1 and Xaa at position 7

<220>
<221> MOD_RES
<222> (2)..(2)
<223> N(alpha)METHYLATION

<220>
<221> MOD_RES
<222> (7)..(7)
<223> Pen

<220>
<221> MOD_RES
<222> (8)..(8)
<223> D-Lys, D-Phe

<400> 93

Xaa Arg Ser Asp Thr Leu Xaa Xaa
1 5

<210> 94
<211> 8
<212> PRT
<213> Unknown

<220>
<223> Synthetic Construct

<220>
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<223> ACETYLATION

<220>
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<223> Disulfide bond between Cys at position 1 and Xaa at position 7

<220>
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<222> (2)..(2)
<223> N(alpha)METHYLATION

<220>
<221> MOD_RES
<222> (7)..(7)
<223> Pen

<220>
<221> MOD_RES
<222> (8)..(8)
<223> D-Lys

<400> 94

Cys Arg Ser Asp Thr Leu Xaa Xaa
1   5

<210> 95
<211> 8
<212> PRT
<213> Unknown

<220>
<223> Synthetic Construct

<220>
<221> MOD_RES
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<223> Pen

<220>
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<223> ACETYLATION

<220>
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<223> Disulfide bond between Xaa at position 1 and Cys at position 7

<220>
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<222> (2)..(2)
<223> N(alpha)METHYLATION

<220>
<221> MOD_RES
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<223> D-Lys

<400> 95

Xaa Arg Ser Asp Thr Leu Cys Xaa

1 5

<210> 96
<211> 9
<212> PRT
<213> Unknown

<220>
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<220>
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<220>
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<223> Disulfide bond between Cys at position 1 and Xaa at position 7

<220>
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<222> (2)..(2)
<223> N(alpha)METHYLATION

<220>
<221> MOD_RES
<222> (7)..(7)
<223> Pen

<220>
<221> MOD_RES
<222> (9)..(9)
<223> D-Lys

<400> 96

Cys Arg Ser Asp Thr Leu Xaa Phe Xaa
1 5

<210> 97
<211> 9
<212> PRT
<213> Unknown

<220>
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<220>
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<223> ACETYLATION

<220>

<221> DISULFID
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<223> Disulfide bond between Cys at position 1 and Xaa at position 7

<220>
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<222> (2)..(2)
<223> N(alpha)METHYLATION

<220>
<221> MOD_RES
<222> (7)..(7)
<223> Pen

<220>
<221> MOD_RES
<222> (8)..(8)
<223> D-Phe, 2-Nal, HPhe, Bip, Phe(4-F), Tyr(OMe), Ala(3,3 biphenyl), Trp(di-hydro), dTrp (di-hydro), Phe(4-Me)

<220>
<221> MOD_RES
<222> (9)..(9)
<223> D-Lys

<400> 97

Cys Arg Ser Asp Thr Leu Xaa Xaa Xaa
1 5

<210> 98
<211> 8
<212> PRT
<213> Unknown

<220>
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<220>
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<222> (2)..(8)
<223> Disulfide bond between Cys at position 2 and Xaa at position 8

<220>
<221> MOD_RES
<222> (3)..(3)
<223> N(alpha)METHYLATION

<220>
<221> MOD_RES
<222> (8)..(8)
<223> Pen

<400> 98

Ser Cys Arg Ser Asp Thr Leu Xaa

1 5

<210> 99
<211> 8
<212> PRT
<213> Unknown

<220>
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<220>
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<222> (2)..(8)
<223> Disulfide bond between Cys at position 2 and Xaa at position 8

<220>
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<222> (3)..(3)
<223> N(alpha)METHYLATION

<220>
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<222> (8)..(8)
<223> Pen

<400> 99

Asn Cys Arg Ser Asp Thr Leu Xaa
1 5

<210> 100
<211> 8
<212> PRT
<213> Unknown

<220>
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<220>
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<223> Disulfide bond between Cys at position 1 and Xaa at position 7

<220>
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<222> (2)..(2)
<223> N(alpha)METHYLATION

<220>
<221> MOD_RES
<222> (7)..(7)
<223> Pen

<400> 100

Cys Arg Ser Asp Thr Leu Xaa Trp
1   5

<210> 101
<211> 8
<212> PRT
<213> Unknown

<220>
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<220>
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<223> Disulfide bond between Cys at position 1 and Xaa at position 7

<220>
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<222> (2)..(2)
<223> N(alpha)METHYLATION

<220>
<221> MOD_RES
<222> (7)..(7)
<223> Pen

<220>
<221> MOD_RES
<222> (8)..(8)
<223> D-Trp, D-Phe

<400> 101

Cys Arg Ser Asp Thr Leu Xaa Xaa
1   5

<210> 102
<211> 9
<212> PRT
<213> Unknown

<220>
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<220>
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<223> ACETYLATION

<220>
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<223> N(alpha)METHYLATION

<220>
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<222> (2)..(2)
<223> Pen

<220>
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<222> (2)..(8)
<223> Disulfide bond between Xaa at position 2 and Xaa at position 8

<220>
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<222> (2)..(2)
<223> N(alpha)METHYLATION

<220>
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<222> (3)..(3)
<223> N(alpha)METHYLATION

<220>
<221> MOD_RES
<222> (8)..(8)
<223> Pen

<400> 102

Lys Xaa Arg Ser Asp Thr Leu Xaa Trp
1   5

<210> 103
<211> 10
<212> PRT
<213> Unknown

<220>
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<220>
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<223> ACETYLATION

<220>
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<223> N(alpha)METHYLATION

<220>
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<222> (2)..(8)
<223> Disulfide bond between Xaa at position 2 and Xaa at position 8

<220>
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<222> (2)..(2)
<223> Pen

<220>
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<222> (3)..(3)
<223> N(alpha)METHYLATION

<220>
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<222> (8)..(8)
<223> Pen

<220>
<221> MOD_RES
<222> (10)..(10)
<223> N(alpha)METHYLATION

<400> 103

Lys Xaa Arg Ser Asp Thr Leu Xaa Trp Lys
1 5 10

<210> 104
<211> 10
<212> PRT
<213> Unknown

<220>
<223> Synthetic Construct

<220>
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<223> ACETYLATION

<220>
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<223> N(alpha)METHYLATION

<220>
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<222> (1)..(1)
<223> D-Lys

<220>
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<222> (2)..(2)
<223> Pen

<220>
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<222> (2)..(8)
<223> Disulfide bond between Xaa at position 2 and Xaa at position 8

<220>
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<222> (3)..(3)
<223> N(alpha)METHYLATION

<220>
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<222> (8)..(8)
<223> Pen

<220>
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<222> (9)..(9)
<223> N(alpha)METHYLATION

<220>
<221> MOD_RES
<222> (10)..(10)
<223> D-Lys

<400> 104

Xaa Xaa Arg Ser Asp Thr Leu Xaa Trp Xaa
1 5 10

<210> 105
<211> 10
<212> PRT
<213> Unknown

<220>
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<220>
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<223> ACETYLATION

<220>
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<223> Pen

<220>
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<223> Disulfide bond between Xaa at position 1 and Xaa at position 7

<220>
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<223> N(alpha)METHYLATION

<220>
<221> MOD_RES
<222> (7)..(7)

<223> Pen

<220>
<221> MOD_RES
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<223> D-Lys

<400> 105

Xaa Arg Ser Asp Thr Leu Xaa Trp Phe Xaa
1 5 10

<210> 106
<211> 10
<212> PRT
<213> Unknown

<220>
<223> Synthetic Construct

<220>
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<223> ACETYLATION

<220>
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<223> Pen

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<223> Disulfide bond between Xaa at position 1 and Xaa at position 7

<220>
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<220>
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<223> Pen

<220>
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<223> N(alpha)METHYLATION

<220>
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<222> (10)..(10)
<223> D-Lys

<220>

<221> MOD_RES
<222> (10)..(10)
<223> N(alpha)METHYLATION

<400> 106

Xaa Arg Ser Asp Thr Leu Xaa Trp Glu Xaa
1 5 10

<210> 107
<211> 10
<212> PRT
<213> Unknown

<220>
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<220>
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<220>
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<223> Pen

<220>
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<223> Disulfide bond between Xaa at postion 1 and Xaa at position 7

<220>
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<223> N(alpha)METHYLATION

<220>
<221> MOD_RES
<222> (7)..(7)
<223> Pen

<220>
<221> MOD_RES
<222> (10)..(10)
<223> N(alpha)METHYLATION

<400> 107

Xaa Arg Ser Asp Thr Leu Xaa Trp Glu Lys
1 5 10

<210> 108
<211> 10
<212> PRT

<213> Unknown

<220>
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<220>
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<220>
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<223> Pen

<220>
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<220>
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<222> (2)..(2)
<223> N(alpha)METHYLATION

<220>
<221> MOD_RES
<222> (7)..(7)
<223> Pen

<220>
<221> MOD_RES
<222> (10)..(10)
<223> D-Lys

<400> 108

Xaa Arg Ser Asp Thr Leu Xaa Trp Ser Xaa
1 5 10

<210> 109
<211> 10
<212> PRT
<213> Unknown

<220>
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<220>
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<223> ACETYLATION

<220>
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<222> (1)..(1)
<223> Pen

<220>
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<223> Disulfide bond between Xaa at position 1 and Xaa at position 7

<220>
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<223> N(alpha)METHYLATION

<220>
<221> MOD_RES
<222> (7)..(7)
<223> Pen

<220>
<221> MOD_RES
<222> (10)..(10)
<223> D-Lys

<400> 109

Xaa Arg Ser Asp Thr Leu Xaa Trp Tyr Xaa
1 5 10

<210> 110
<211> 9
<212> PRT
<213> Unknown

<220>
<223> Synthetic Construct

<220>
<221> MOD_RES
<222> (1)..(1)
<223> ACETYLATION

<220>
<221> MOD_RES
<222> (1)..(1)
<223> Pen

<220>
<221> DISULFID
<222> (1)..(7)
<223> Disulfide bond between Xaa at position 1 and Xaa at position 7

<220>
<221> MOD_RES
<222> (2)..(2)
<223> N(alpha)METHYLATION

<220>
<221> MOD_RES
<222> (7)..(7)
<223> Pen

<220>
<221> MOD_RES
<222> (8)..(8)
<223> D-Trp, D-Phe

<220>
<221> MOD_RES
<222> (9)..(9)
<223> D-Lys

<400> 110

Xaa Arg Ser Asp Thr Leu Xaa Xaa Xaa
1   5

<210> 111
<211> 9
<212> PRT
<213> Unknown

<220>
<223> Synthetic Construct

<220>
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<223> ACETYLATION

<220>
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<222> (1)..(1)
<223> Pen

<220>
<221> DISULFID
<222> (1)..(7)
<223> Disulfide bond between Xaa at position 1 and Xaa at position 7

<220>
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<223> N(alpha)METHYLATION

<220>
<221> MOD_RES
<222> (7)..(7)
<223> Pen

<220>
<221> MOD_RES
<222> (9)..(9)

<223> N(alpha)METHYLATION

<400> 111

Xaa Arg Ser Asp Thr Leu Xaa Trp Lys
1 5

<210> 112
<211> 9
<212> PRT
<213> Unknown

<220>
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<220>
<221> MOD_RES
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<223> ACETYLATION

<220>
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<222> (1)..(1)
<223> Pen

<220>
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<223> Disulfide bond between Xaa at position 1 and Xaa at position 7

<220>
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<222> (2)..(2)
<223> N(alpha)METHYLATION

<220>
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<222> (4)..(4)
<223> D-Asp

<220>
<221> MOD_RES
<222> (9)..(9)
<223> D-Lys

<400> 112

Xaa Arg Ser Xaa Thr Leu Xaa Trp Xaa
1 5

<210> 113
<211> 9
<212> PRT
<213> Unknown

<220>
<223> Synthetic Construct

<220>
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<222> (2)..(2)
<223> Pen

<220>
<221> DISULFID
<222> (2)..(8)
<223> Disulfide bond between Xaa at position 2 and Xaa at position 8

<220>
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<222> (3)..(3)
<223> N(alpha)METHYLATION

<220>
<221> MOD_RES
<222> (8)..(8)
<223> Pen

<400> 113

Pro Xaa Arg Ser Asp Thr Leu Xaa Trp
1   5

<210> 114
<211> 9
<212> PRT
<213> Unknown

<220>
<223> Synthetic Construct

<220>
<221> MOD_RES
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<223> Pen

<220>
<221> DISULFID
<222> (2)..(8)
<223> Disulfide bond between Xaa at position 2 and Xaa at position 8

<220>
<221> MOD_RES
<222> (3)..(3)
<223> N(alpha)METHYLATION

<220>
<221> MOD_RES
<222> (8)..(8)
<223> Pen

<400> 114

Leu Xaa Arg Ser Asp Thr Leu Xaa Trp
1 5

<210> 115
<211> 9
<212> PRT
<213> Unknown

<220>
<223> Synthetic Construct

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Pen

<220>
<221> DISULFID
<222> (2)..(8)
<223> Disulfide bond between Xaa at position 2 and Xaa at position 8

<220>
<221> MOD_RES
<222> (3)..(3)
<223> N(alpha)METHYLATION

<220>
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<222> (8)..(8)
<223> Pen

<400> 115

His Xaa Arg Ser Asp Thr Leu Xaa Trp
1 5

<210> 116
<211> 9
<212> PRT
<213> Unknown

<220>
<223> Synthetic Construct

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Pen

<220>
<221> DISULFID

<222> (2)..(8)
<223> Disulfide bond between Xaa at position 2 and Xaa at position 8

<220>
<221> MOD_RES
<222> (3)..(3)
<223> N(alpha)METHYLATION

<220>
<221> MOD_RES
<222> (8)..(8)
<223> Pen

<400> 116

Glu Xaa Arg Ser Asp Thr Leu Xaa Trp
1 5

<210> 117
<211> 9
<212> PRT
<213> Unknown

<220>
<223> Synthetic Construct

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Pen

<220>
<221> DISULFID
<222> (2)..(8)
<223> Disulfide bond between Xaa at position 2 and Xaa at position 8

<220>
<221> MOD_RES
<222> (3)..(3)
<223> N(alpha)METHYLATION

<220>
<221> MOD_RES
<222> (8)..(8)
<223> Pen

<400> 117

Arg Xaa Arg Ser Asp Thr Leu Xaa Trp
1 5

<210> 118
<211> 9
<212> PRT
<213> Unknown

<220>
<223> Synthetic Construct

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Pen

<220>
<221> DISULFID
<222> (2)..(8)
<223> Disulfide bond between Xaa at position 2 and Xaa at position 8

<220>
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<222> (3)..(3)
<223> N(alpha)METHYLATION

<220>
<221> MOD_RES
<222> (8)..(8)
<223> Pen

<400> 118

Ser Xaa Arg Ser Asp Thr Leu Xaa Trp
1   5

<210> 119
<211> 9
<212> PRT
<213> Unknown

<220>
<223> Synthetic Construct

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Pen

<220>
<221> DISULFID
<222> (2)..(8)
<223> Disulfide bond between Xaa at position 2 and Xaa at position 8

<220>
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<222> (3)..(3)
<223> N(alpha)METHYLATION

<220>
<221> MOD_RES
<222> (8)..(8)

<223> Pen

<400> 119

Phe Xaa Arg Ser Asp Thr Leu Xaa Trp
1 5

<210> 120
<211> 10
<212> PRT
<213> Unknown

<220>
<223> Synthetic Construct

<220>
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<222> (1)..(1)
<223> ACETYLATION

<220>
<221> MOD_RES
<222> (1)..(1)
<223> Pen

<220>
<221> DISULFID
<222> (1)..(7)
<223> Disulfide bond between Xaa at position 1 and Xaa at position 7

<220>
<221> MOD_RES
<222> (2)..(2)
<223> N(alpha)METHYLATION

<220>
<221> MOD_RES
<222> (7)..(7)
<223> Pen

<220>
<221> MOD_RES
<222> (8)..(8)
<223> D-Phe, D-Trp, 2-Nal, 3-3-diPhe, Beta-HTrp, Phe(4-CF3), 1-Nal, 2-Nal, Phe(2,4-Cl2), Phe(3,4-Cl2), D-1-Nal, D-2-Nal, HPhe, D-HPhe, 2,2-Indane, 1,1-Indane

<220>
<221> MOD_RES
<222> (10)..(10)
<223> D-Lys

<220>
<221> MOD_RES
<222> (10)..(10)
<223> N(alpha)METHYLATION

<400> 120

Xaa Arg Ser Asp Thr Leu Xaa Xaa Glu Xaa
1 5 10

<210> 121
<211> 10
<212> PRT
<213> Unknown

<220>
<223> Synthetic Construct

<220>
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<223> ACETYLATION

<220>
<221> MOD_RES
<222> (1)..(1)
<223> Pen

<220>
<221> DISULFID
<222> (1)..(7)
<223> Disulfide bond between Xaa at position 1 and Xaa at position 7

<220>
<221> MOD_RES
<222> (2)..(2)
<223> N(alpha)METHYLATION

<220>
<221> MOD_RES
<222> (7)..(7)
<223> Pen

<220>
<221> MOD_RES
<222> (10)..(10)
<223> D-Lys

<400> 121

Xaa Arg Ser Asp Thr Leu Xaa Trp Leu Xaa
1 5 10

<210> 122
<211> 10
<212> PRT
<213> Unknown

<220>

<223> Synthetic Construct

<220>
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<222> (1)..(1)
<223> ACETYLATION

<220>
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<223> Pen

<220>
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<223> Disulfide bond between Xaa at position 1 and Xaa at position 7

<220>
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<222> (2)..(2)
<223> N(alpha)METHYLATION

<220>
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<222> (7)..(7)
<223> Pen

<220>
<221> MOD_RES
<222> (10)..(10)
<223> D-Lys

<400> 122

Xaa Arg Ser Asp Thr Leu Xaa Trp His Xaa
1 5 10

<210> 123
<211> 10
<212> PRT
<213> Unknown

<220>
<223> Synthetic Construct

<220>
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<222> (1)..(1)
<223> ACETYLATION

<220>
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<223> Pen

<220>
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<222> (1)..(7)
<223> Disulfide bond between Xaa at position 1 and Xaa at position 7

<220>
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<223> N(alpha)METHYLATION

<220>
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<222> (7)..(7)
<223> Pen

<220>
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<222> (10)..(10)
<223> D-Lys

<400> 123

Xaa Arg Ser Asp Thr Leu Xaa Trp Arg Xaa
1   5   10

<210> 124
<211> 10
<212> PRT
<213> Unknown

<220>
<223> Synthetic Construct

<220>
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<223> ACETYLATION

<220>
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<220>
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<223> Disulfide bond between Xaa at position 1 and Xaa at position 7

<220>
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<222> (2)..(2)
<223> N(alpha)METHYLATION

<220>
<221> MOD_RES
<222> (7)..(7)

<223> Pen

<220>
<221> MOD_RES
<222> (10)..(10)
<223> D-Lys

<400> 124

Xaa Arg Ser Asp Thr Leu Xaa Trp Trp Xaa
1 5 10

<210> 125
<211> 10
<212> PRT
<213> Unknown

<220>
<223> Synthetic Construct

<220>
<221> MOD_RES
<222> (1)..(1)
<223> ACETYLATION

<220>
<221> MOD_RES
<222> (1)..(1)
<223> Pen

<220>
<221> DISULFID
<222> (1)..(7)
<223> Disulfide bond between Xaa at position 1 and Xaa at position 7

<220>
<221> MOD_RES
<222> (2)..(2)
<223> N(alpha)METHYLATION

<220>
<221> MOD_RES
<222> (7)..(7)
<223> Pen

<220>
<221> MOD_RES
<222> (10)..(10)
<223> D-Lys

<400> 125

Xaa Arg Ser Asp Thr Leu Xaa Trp Pro Xaa
1 5 10

<210> 126
<211> 10
<212> PRT
<213> Unknown

<220>
<223> Synthetic Construct

<220>
<221> MOD_RES
<222> (1)..(1)
<223> ACETYLATION

<220>
<221> MOD_RES
<222> (1)..(1)
<223> Pen

<220>
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<223> Disulfide bond between Xaa at position 1 and Xaa at position 7

<220>
<221> MOD_RES
<222> (2)..(2)
<223> N(alpha)METHYLATION

<220>
<221> MOD_RES
<222> (7)..(7)
<223> Pen

<220>
<221> MOD_RES
<222> (10)..(10)
<223> D-Lys

<400> 126

Xaa Arg Ser Asp Thr Leu Xaa Trp Asn Xaa
1 5 10

<210> 127
<211> 9
<212> PRT
<213> Unknown

<220>
<223> Synthetic Construct

<220>
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<222> (1)..(1)
<223> ACETYLATION

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<222> (1)..(1)
<223> Pen

<220>
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<223> Disulfide bond between Xaa at position 1 and Xaa at position 7

<220>
<221> MOD_RES
<222> (2)..(2)
<223> N(alpha)METHYLATION

<220>
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<222> (7)..(7)
<223> Pen

<220>
<221> MOD_RES
<222> (8)..(8)
<223> D-Phe

<220>
<221> MOD_RES
<222> (9)..(9)
<223> D-Lys

<400> 127

Xaa Arg Thr Asp Thr Leu Xaa Xaa Xaa
1 5

<210> 128
<211> 9
<212> PRT
<213> Unknown

<220>
<223> Synthetic Construct

<220>
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<223> ACETYLATION

<220>
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<223> Pen

<220>
<221> DISULFID

<222> (1)..(7)
<223> Disulfide bond between Xaa at position 1 and Xaa at position 7

<220>
<221> MOD_RES
<222> (2)..(2)
<223> N(alpha)METHYLATION

<220>
<221> MOD_RES
<222> (7)..(7)
<223> Pen

<220>
<221> MOD_RES
<222> (8)..(8)
<223> D-Phe

<220>
<221> MOD_RES
<222> (9)..(9)
<223> D-Lys

<400> 128

Xaa Arg Ile Asp Thr Leu Xaa Xaa Xaa
1 5

<210> 129
<211> 9
<212> PRT
<213> Unknown

<220>
<223> Synthetic Construct

<220>
<221> MOD_RES
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<223> ACETYLATION

<220>
<221> DISULFID
<222> (1)..(7)
<223> Disulfide bond between Cys at position 1 and Cys at position 7

<220>
<221> MOD_RES
<222> (2)..(2)
<223> N(alpha)METHYLATION

<220>
<221> MOD_RES
<222> (8)..(8)
<223> D-Phe

<220>
<221> MOD_RES
<222> (9)..(9)
<223> D-Lys

<400> 129

Cys Arg Ser Asp Ile Leu Cys Xaa Xaa
1 5

<210> 130
<211> 9
<212> PRT
<213> Unknown

<220>
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<220>
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<223> Disulfide bond between Cys at position 1 and Cys at position 7

<220>
<221> MOD_RES
<222> (2)..(2)
<223> N(alpha)METHYLATION

<220>
<221> MOD_RES
<222> (8)..(8)
<223> D-Phe

<220>
<221> MOD_RES
<222> (9)..(9)
<223> D-Lys

<400> 130

Cys Arg Ser Asp Val Leu Cys Xaa Xaa
1 5

<210> 131
<211> 9
<212> PRT
<213> Unknown

<220>
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<220>
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<223> ACETYLATION

<220>
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<222> (1)..(7)
<223> Disulfide bond between Cys at position 1 and Cys at position 7

<220>
<221> MOD_RES
<222> (2)..(2)
<223> N(alpha)METHYLATION

<220>
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<222> (6)..(6)
<223> HLeu, cyclobutyl-Ala, HCha, Nle

<220>
<221> MOD_RES
<222> (9)..(9)
<223> D-Lys

<400> 131

Cys Arg Ser Asp Thr Xaa Cys Trp Xaa
1 5

<210> 132
<211> 9
<212> PRT
<213> Unknown

<220>
<223> Synthetic Construct

<220>
<221> MOD_RES
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<223> ACETYLATION

<220>
<221> DISULFID
<222> (1)..(7)
<223> Disulfide bond between Cys at position 1 and Cys at position 7

<220>
<221> MOD_RES
<222> (2)..(2)
<223> N(alpha)METHYLATION

<220>

<221> MOD_RES
<222> (9)..(9)
<223> D-Lys

<400> 132

Cys Arg Ser Asp Thr Leu Cys Trp Xaa
1 5

<210> 133
<211> 10
<212> PRT
<213> Unknown

<220>
<223> Synthetic Construct

<220>
<221> MOD_RES
<222> (1)..(1)
<223> ACETYLATION

<220>
<221> MOD_RES
<222> (1)..(1)
<223> Pen

<220>
<221> DISULFID
<222> (1)..(7)
<223> Disulfide bond between Xaa at position 1 and Xaa at position 7

<220>
<221> MOD_RES
<222> (2)..(2)
<223> N(alpha)METHYLATION

<220>
<221> MOD_RES
<222> (7)..(7)
<223> Pen

<220>
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<223> D-Asp, D-Glu, Beta-HGlu, 1-Nal, 2-Nal, Bip, Beta-HPhe, Beta-Glu

<220>
<221> MOD_RES
<222> (10)..(10)
<223> D-Lys

<400> 133

Xaa Arg Ser Asp Thr Leu Xaa Trp Xaa Xaa
1 5 10

<210> 134
<211> 10
<212> PRT
<213> Unknown

<220>
<223> Synthetic Construct

<220>
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<223> ACETYLATION

<220>
<221> MOD_RES
<222> (1)..(1)
<223> Pen

<220>
<221> DISULFID
<222> (1)..(7)
<223> Disulfide bond between Xaa at position 1 and Xaa at position 7

<220>
<221> MOD_RES
<222> (2)..(2)
<223> N(alpha)METHYLATION

<220>
<221> MOD_RES
<222> (7)..(7)
<223> Pen

<220>
<221> MOD_RES
<222> (8)..(8)
<223> D-Phe, D-Trp, 1-Nal, 2-Nal, Phe(4-CF3), HPhe

<220>
<221> MOD_RES
<222> (8)..(8)
<223> D-Phe, D-Trp, 1-Nal, 2-Nal, Phe(4-CF3), HPhe

<220>
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<222> (9)..(9)
<223> D-Glu, D-Tyr

<220>
<221> MOD_RES
<222> (10)..(10)
<223> D-Lys

<400> 134

Xaa Arg Ser Asp Thr Leu Xaa Xaa Xaa Xaa
1   5   10

<210> 135
<211> 10
<212> PRT
<213> Unknown

<220>
<223> Synthetic Construct

<220>
<221> MOD_RES
<222> (1)..(1)
<223> ACETYLATION

<220>
<221> MOD_RES
<222> (1)..(1)
<223> Pen

<220>
<221> DISULFID
<222> (1)..(7)
<223> Disulfide bond between Xaa at position 1 and Xaa at position 7

<220>
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<222> (2)..(2)
<223> N(alpha)METHYLATION

<220>
<221> MOD_RES
<222> (7)..(7)
<223> Pen

<220>
<221> MOD_RES
<222> (9)..(9)
<223> D-Glu

<220>
<221> MOD_RES
<222> (10)..(10)
<223> D-Lys

<400> 135

Xaa Arg Ser Asp Thr Leu Xaa Phe Xaa Xaa
1   5   10

<210> 136
<211> 9
<212> PRT
<213> Unknown

<220>
<223> Synthetic Construct

<220>
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<223> ACETYLATION

<220>
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<220>
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<222> (1)..(7)
<223> Disulfide bond between Xaa at position 1 and Xaa at position 7

<220>
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<222> (2)..(2)
<223> N(alpha)METHYLATION

<220>
<221> MOD_RES
<222> (7)..(7)
<223> Pen

<220>
<221> MOD_RES
<222> (9)..(9)
<223> D-Lys

<400> 136

Xaa Lys Ser Asp Thr Leu Xaa Trp Xaa
1   5

<210> 137
<211> 10
<212> PRT
<213> Unknown

<220>
<223> Synthetic Construct

<220>
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<222> (1)..(1)
<223> ACETYLATION

<220>
<221> MOD_RES
<222> (1)..(1)

<223> Pen

<220>
<221> DISULFID
<222> (1)..(7)
<223> Disulfide bond between Xaa at position 1 and Xaa at position 7

<220>
<221> MOD_RES
<222> (2)..(2)
<223> N(alpha)METHYLATION

<220>
<221> MOD_RES
<222> (7)..(7)
<223> Pen

<220>
<221> MOD_RES
<222> (10)..(10)
<223> N(alpha)METHYLATION

<400> 137

Xaa Arg Ser Asp Thr Leu Xaa Trp Tyr Lys
1 5 10

<210> 138
<211> 9
<212> PRT
<213> Unknown

<220>
<223> Synthetic Construct

<220>
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<223> ACETYLATION

<220>
<221> MOD_RES
<222> (1)..(1)
<223> Pen

<220>
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<222> (1)..(7)
<223> Disulfide bond between Xaa at position 1 and Xaa at position 7

<220>
<221> MOD_RES
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<223> N(alpha)METHYLATION

<220>

<221> MOD_RES
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<223> Nle

<220>
<221> MOD_RES
<222> (7)..(7)
<223> Pen

<220>
<221> MOD_RES
<222> (9)..(9)
<223> D-Lys

<400> 138

Xaa Arg Ser Asp Thr Xaa Xaa Trp Xaa
1 5

<210> 139
<211> 10
<212> PRT
<213> Unknown

<220>
<223> Synthetic Construct

<220>
<221> MOD_RES
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<223> ACETYLATION

<220>
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<222> (1)..(1)
<223> Pen

<220>
<221> DISULFID
<222> (1)..(7)
<223> Disulfide bond between Xaa at position 1 and Xaa at position 7

<220>
<221> MOD_RES
<222> (2)..(2)
<223> N(alpha)METHYLATION

<220>
<221> MOD_RES
<222> (6)..(6)
<223> Nle

<220>
<221> MOD_RES
<222> (7)..(7)
<223> Pen

<220>
<221> MOD_RES
<222> (10)..(10)
<223> D-Lys

<400> 139

Xaa Arg Ser Asp Thr Xaa Xaa Trp Glu Xaa
1 5 10

<210> 140
<211> 8
<212> PRT
<213> Unknown

<220>
<223> Synthetic Construct

<220>
<221> MOD_RES
<222> (1)..(1)
<223> Pen

<220>
<221> DISULFID
<222> (1)..(7)
<223> Disulfide bond between Xaa at position 1 and Xaa at position 7

<220>
<221> MOD_RES
<222> (2)..(2)
<223> N(alpha)METHYLATION

<220>
<221> MOD_RES
<222> (7)..(7)
<223> Pen

<220>
<221> MOD_RES
<222> (8)..(8)
<223> D-Phe

<400> 140

Xaa Arg Ser Asp Thr Leu Xaa Xaa
1 5

<210> 141
<211> 8
<212> PRT
<213> Unknown

<220>

<223> Synthetic Construct

<220>
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<222> (1)..(1)
<223> Pen

<220>
<221> DISULFID
<222> (1)..(7)
<223> Disulfide bond between Xaa at position 1 and Xaa at position 7

<220>
<221> MOD_RES
<222> (2)..(2)
<223> N(alpha)METHYLATION

<220>
<221> MOD_RES
<222> (7)..(7)
<223> Pen

<400> 141

Xaa Arg Ser Asp Thr Leu Xaa Trp
1 5

<210> 142
<211> 10
<212> PRT
<213> Unknown

<220>
<223> Synthetic Construct

<220>
<221> MOD_RES
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<223> ACETYLATION

<220>
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<222> (1)..(1)
<223> Pen

<220>
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<222> (1)..(7)
<223> Disulfide bond between Xaa at position 1 and Xaa at position 7

<220>
<221> MOD_RES
<222> (2)..(2)
<223> N(alpha)METHYLATION

<220>
<221> MOD_RES
<222> (7)..(7)
<223> Pen

<220>
<221> MOD_RES
<222> (10)..(10)
<223> D-Lys

<400> 142

Xaa Arg Ser Asp Thr Leu Xaa Trp Asp Xaa
1   5   10

<210> 143
<211> 10
<212> PRT
<213> Unknown

<220>
<223> Synthetic Construct

<220>
<221> MOD_RES
<222> (1)..(1)
<223> ACETYLATION

<220>
<221> MOD_RES
<222> (1)..(1)
<223> Pen

<220>
<221> DISULFID
<222> (1)..(7)
<223> Disulfide bond between Xaa at position 1 and Xaa at position 7

<220>
<221> MOD_RES
<222> (2)..(2)
<223> N(alpha)METHYLATION

<220>
<221> MOD_RES
<222> (7)..(7)
<223> Pen

<220>
<221> MOD_RES
<222> (10)..(10)
<223> D-Lys

<400> 143

Xaa Arg Ser Asp Thr Leu Xaa His Glu Xaa

1 5 10

<210> 144
<211> 10
<212> PRT
<213> Unknown

<220>
<223> Synthetic Construct

<220>
<221> MOD_RES
<222> (1)..(1)
<223> ACETYLATION

<220>
<221> MOD_RES
<222> (1)..(1)
<223> Pen

<220>
<221> DISULFID
<222> (1)..(7)
<223> Disulfide bond between Xaa at position 1 and Xaa at position 7

<220>
<221> MOD_RES
<222> (2)..(2)
<223> N(alpha)METHYLATION

<220>
<221> MOD_RES
<222> (7)..(7)
<223> Pen

<220>
<221> MOD_RES
<222> (10)..(10)
<223> D-Lys

<400> 144

Xaa Arg Ser Asp Thr Leu Xaa His Tyr Xaa
1 5 10

<210> 145
<211> 10
<212> PRT
<213> Unknown

<220>
<223> Synthetic Construct

<220>

<221> MOD_RES
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<223> ACETYLATION

<220>
<221> MOD_RES
<222> (1)..(1)
<223> Pen

<220>
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<222> (1)..(7)
<223> Disulfide bond between Xaa at position 1 and Xaa at position 7

<220>
<221> MOD_RES
<222> (2)..(2)
<223> N(alpha)METHYLATION

<220>
<221> MOD_RES
<222> (7)..(7)
<223> Pen

<220>
<221> MOD_RES
<222> (10)..(10)
<223> D-Lys

<400> 145

Xaa Arg Ser Asp Thr Leu Xaa Tyr Glu Xaa
1 5 10

<210> 146
<211> 10
<212> PRT
<213> Unknown

<220>
<223> Synthetic Construct

<220>
<221> MOD_RES
<222> (1)..(1)
<223> ACETYLATION

<220>
<221> MOD_RES
<222> (1)..(1)
<223> Pen

<220>
<221> DISULFID
<222> (1)..(7)
<223> Disulfide bond between Xaa at position 1 and Xaa at position 7

<220>
<221> MOD_RES
<222> (2)..(2)
<223> N(alpha)METHYLATION

<220>
<221> MOD_RES
<222> (7)..(7)
<223> Pen

<220>
<221> MOD_RES
<222> (8)..(8)
<223> 2-Nal

<220>
<221> MOD_RES
<222> (10)..(10)
<223> D-Lys

<400> 146

Xaa Arg Ser Asp Thr Leu Xaa Xaa Tyr Xaa
1   5   10