

4129257_1.txt
SEQUENCE LISTING

<110> Fuji Film Corporation

<120> Cyclic peptides

<130> 16F02533

<150> JP 2015-209030

<151> 2015-10-23

<150> JP 2016-206753

<151> 2016-10-21

<160> 91

<170> PatentIn version 3.5

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<211> 9

<212> PRT

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Ala Tyr His Leu Gly Glu Leu Val Trp
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Ala Tyr His Arg Gly Glu Leu Val Trp
1 5

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<223> Cyclic_peptide_1

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<222> (2)..(2)

<223> Xaa2 is an amino acid residue derived from
N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<220>

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<222> (12)..(12)

<223> Xaa2 is an amino acid residue derived from
N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<400> 3

Asp	Xaa	Ala	Tyr	His	Arg	Gly	Glu	Leu	Val	Trp	Xaa	Thr	Lys	Lys
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<223> Cyclic_peptide_2

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<221> MISC_FEATURE

<222> (2)..(2)

<223> Xaa2 and Xaa12 are amino acid residues derived from
L-homocysteine.

Xaa2 and Xaa12 are bridged by a disulfide bond.

<220>

<221> MISC_FEATURE

<222> (12)..(12)

<223> Xaa2 and Xaa12 are amino acid residues derived from
L-homocysteine.

Xaa2 and Xaa12 are bridged by a disulfide bond.

<400> 4

Asp	Xaa	Ala	Tyr	His	Arg	Gly	Glu	Leu	Val	Trp	Xaa	Thr	Lys	Lys
1				5					10					15

<210> 5

<211> 15

<212> PRT

<213> Artificial Sequence

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<223> Cyclic_peptide_3

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<221> MISC_FEATURE

<222> (2)..(2)

<223> Xaa2 is an amino acid residue derived from L-homocysteine.

Xaa12 is an amino acid residue derived from
N-delta-chloroacetyl-L-ornithine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<220>

<221> MISC_FEATURE

<222> (12)..(12)

<223> Xaa2 is an amino acid residue derived from L-homocysteine.

Xaa12 is an amino acid residue derived from
N-delta-chloroacetyl-L-ornithine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<400> 5

Asp Xaa Ala Tyr His Arg Gly Glu Leu Val Trp Xaa Thr Lys Lys
1 5 10 15

<210> 6

<211> 15

<212> PRT

<213> Artificial Sequence

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<222> (4)..(4)

<223> Xaa4 is an amino acid residue derived from
N-epsilon-chloroacetyl-L-lysine.

Xaa14 is an amino acid residue derived from L-homocysteine.

Xaa4 and Xaa14 are bridged by a thioether bond.

<220>

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<222> (14)..(14)

<223> Xaa4 is an amino acid residue derived from
N-epsilon-chloroacetyl-L-lysine.

Xaa14 is an amino acid residue derived from L-homocysteine.

Xaa4 and Xaa14 are bridged by a thioether bond.

<400> 6

Lys Lys Asp Xaa Ala Tyr His Arg Gly Glu Leu Val Trp Xaa Thr
1 5 10 15

<210> 7

<211> 15

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<222> (2)..(2)

<223> Xaa2 is an amino acid residue derived from
N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<220>

<221> MISC_FEATURE

<222> (12)..(12)

<223> Xaa2 is an amino acid residue derived from
N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<400> 7

Asp	Xaa	Ala	Tyr	His	Leu	Gly	Glu	Leu	Val	Trp	Xaa	Thr	Lys	Lys
1				5					10					15

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<211> 15

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<223> Cyclic_peptide_6

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<221> MISC_FEATURE

<222> (2)..(2)

<223> Xaa2 and Xaa12 are amino acid residues derived from
L-homocysteine.

Xaa2 and Xaa12 are bridged by a disulfide bond.

<220>

<221> MISC_FEATURE

<222> (12)..(12)

<223> Xaa2 and Xaa12 are amino acid residues derived from
L-homocysteine.

Xaa2 and Xaa12 are bridged by a disulfide bond.

<400> 8

Asp	Xaa	Ala	Tyr	His	Leu	Gly	Glu	Leu	Val	Trp	Xaa	Thr	Lys	Lys
1				5					10					15

<210> 9

<211> 15

<212> PRT

<213> Artificial Sequence

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<223> Cyclic_peptide_7

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> Xaa2 is an amino acid residue derived from
(2S)-2-amino-3-[(2-chloroacetyl)amino]propanoic acid.

Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<220>

<221> MISC_FEATURE

<222> (12)..(12)

<223> Xaa2 is an amino acid residue derived from
(2S)-2-amino-3-[(2-chloroacetyl)amino]propanoic acid.

Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<400> 9

Asp Xaa Ala Tyr His Leu Gly Glu Leu Val Trp Xaa Thr Lys Lys
1 5 10 15

<210> 10

<211> 15

<212> PRT

<213> Artificial Sequence

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<223> Cyclic_peptide_8

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> Xaa2 is an amino acid residue derived from
(2S)-2-amino-4-[(2-chloroacetyl)amino]butanoic acid.

Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<220>

<221> MISC_FEATURE

<222> (12)..(12)

<223> Xaa2 is an amino acid residue derived from
(2S)-2-amino-4-[(2-chloroacetyl)amino]butanoic acid.

Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<400> 10

Asp Xaa Ala Tyr His Leu Gly Glu Leu Val Trp Xaa Thr Lys Lys
1 5 10 15

<210> 11

<211> 15

<212> PRT

<213> Artificial Sequence

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<223> Cyclic_peptide_9

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> Xaa2 is an amino acid residue derived from
N-delta-chloroacetyl-L-ornithine.

Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<220>

<221> MISC_FEATURE

<222> (12)..(2)

<223> Xaa2 is an amino acid residue derived from
N-delta-chloroacetyl-L-ornithine.

Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<220>

<221> misc_feature

<222> (12)..(12)

<223> Xaa can be any naturally occurring amino acid

<400> 11

Asp	Xaa	Ala	Tyr	His	Leu	Gly	Glu	Leu	Val	Trp	Xaa	Thr	Lys	Lys
1				5					10					15

<210> 12

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<223> cyclic_peptide_10

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<222> (2)..(2)

<223> Xaa2 is an amino acid residue derived from L-homocysteine.

Xaa12 is an amino acid residue derived from
(2S)-2-amino-4-[(2-chloroacetyl)amino]butanoic acid.

Xaa2 and Xaa12 are bridged by a thioether bond.

<220>

<221> MISC_FEATURE

<222> (12)..(12)

<223> Xaa2 is an amino acid residue derived from L-homocysteine.

Xaa12 is an amino acid residue derived from
(2S)-2-amino-4-[(2-chloroacetyl)amino]butanoic acid.

Xaa2 and Xaa12 are bridged by a thioether bond.

<400> 12

Asp	Xaa	Ala	Tyr	His	Leu	Gly	Glu	Leu	Val	Trp	Xaa	Thr	Lys	Lys
1				5					10					15

<210> 13

<211> 15

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<213> Artificial Sequence

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<223> cyclic_peptide_11

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> Xaa2 is an amino acid residue derived from homocysteine.

Xaa12 is an amino acid residue derived from

N-delta-chloroacetyl-L-ornithine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<220>

<221> MISC_FEATURE

<222> (12)..(12)

<223> Xaa2 is an amino acid residue derived from homocysteine.

Xaa12 is an amino acid residue derived from
N-delta-chloroacetyl-L-ornithine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<400> 13

Asp Xaa Ala Tyr His Leu Gly Glu Leu Val Trp Xaa Thr Lys Lys
1 5 10 15

<210> 14

<211> 15

<212> PRT

<213> Artificial Sequence

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<222> (2)..(2)

<223> Xaa2 is an amino acid residue derived from L-homocysteine.

Xaa12 is an amino acid residue derived from
N-epsilon-chloroacetyl-L-lysine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<220>

<221> MISC_FEATURE

<222> (12)..(12)

<223> Xaa2 is an amino acid residue derived from L-homocysteine.

Xaa12 is an amino acid residue derived from
N-epsilon-chloroacetyl-L-lysine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<400> 14

Asp Xaa Ala Tyr His Leu Gly Glu Leu Val Trp Xaa Thr Lys Lys
1 5 10 15

<210> 15

<211> 15

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<223> cyclic_peptide_13

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<222> (2)..(2)

<223> Xaa2 is an amino acid residue derived from

N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<220>

<221> MISC_FEATURE

<222> (12)..(12)

<223> Xaa2 is an amino acid residue derived from
N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<400> 15

Asp	Xaa	Ala	Tyr	His	Leu	Gly	Glu	Leu	Val	Trp	Xaa	Ser	Lys	Lys
1				5					10					15

<210> 16

<211> 15

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<222> (2)..(2)

<223> Xaa2 is an amino acid residue derived from
N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<220>

<221> MISC_FEATURE

<222> (12)..(12)

<223> Xaa2 is an amino acid residue derived from
N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<220>

<221> MISC_FEATURE

<222> (13)..(13)

<223> Xaa13 is an amino acid residue derived from L-homoserine.

<400> 16

Asp	Xaa	Ala	Tyr	His	Leu	Gly	Glu	Leu	Val	Trp	Xaa	Xaa	Lys	Lys
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<210> 17

<211> 15

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<221> MISC_FEATURE

<222> (2)..(2)

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Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<220>

<221> MISC_FEATURE

<222> (12)..(12)

<223> Xaa2 is an amino acid residue derived from
N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<400> 17

Asp	Xaa	Ala	Tyr	His	Leu	Gly	Glu	Leu	Val	Trp	Xaa	Asp	Lys	Lys
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<210> 18

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<223> cyclic_peptide_16

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<222> (2)..(2)

<223> Xaa2 is an amino acid residue derived from
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Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<220>

<221> MISC_FEATURE

<222> (12)..(12)

<223> Xaa2 is an amino acid residue derived from
N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<400> 18

Asp	Xaa	Ala	Tyr	His	Leu	Gly	Glu	Leu	Val	Trp	Xaa	Glu	Lys	Lys
1				5					10					15

<210> 19

<211> 15

<212> PRT

<213> Artificial Sequence

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 <223> Xaa2 is an amino acid residue derived from
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 Xaa12 is an amino acid residue derived from L-homocysteine.
 Xaa2 and Xaa12 are bridged by a thioether bond.

<220>
 <221> MISC_FEATURE
 <222> (12)..(12)
 <223> Xaa2 is an amino acid residue derived from
 N-epsilon-chloroacetyl-L-lysine.

 Xaa12 is an amino acid residue derived from L-homocysteine.
 Xaa2 and Xaa12 are bridged by a thioether bond.

<400> 19

Asp	Xaa	Ala	Tyr	His	Leu	Gly	Glu	Leu	Val	Trp	Xaa	Tyr	Lys	Lys
1				5					10					15

<210> 20
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 <212> PRT
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 <223> Xaa2 is an amino acid residue derived from
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 Xaa12 is an amino acid residue derived from L-homocysteine.
 Xaa2 and Xaa12 are bridged by a thioether bond.

<220>
 <221> MISC_FEATURE
 <222> (12)..(12)
 <223> Xaa2 is an amino acid residue derived from
 N-epsilon-chloroacetyl-L-lysine.

 Xaa12 is an amino acid residue derived from L-homocysteine.
 Xaa2 and Xaa12 are bridged by a thioether bond.

<220>
 <221> MISC_FEATURE
 <222> (13)..(13)
 <223> Xaa13 is an amino acid residue derived from L-homotyrosine.

<400> 20

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-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

1 5 10 15

<210> 21
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<220>
 <221> MISC_FEATURE
 <222> (2)..(2)
 <223> Xaa2 is an amino acid residue derived from
 N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<220>
 <221> MISC_FEATURE
 <222> (12)..(12)
 <223> Xaa2 is an amino acid residue derived from
 N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<400> 21

Ser Xaa Ala Tyr His Leu Gly Glu Leu Val Trp Xaa Thr Lys Lys
 1 5 10 15

<210> 22
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> cyclic_peptide_20

<220>
 <221> MISC_FEATURE
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 N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<220>
 <221> MISC_FEATURE
 <222> (12)..(12)
 <223> Xaa2 is an amino acid residue derived from
 N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<400> 22

Thr Xaa Ala Tyr His Leu Gly Glu Leu Val Trp Xaa Thr Lys Lys
 1 5 10 15

<210> 23
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> cyclic_peptide_21

<220>
 <221> MISC_FEATURE
 <222> (1)..(1)
 <223> Xaa1 is an amino acid residue derived from L-homoserine.

<220>
 <221> MISC_FEATURE
 <222> (2)..(2)
 <223> Xaa2 is an amino acid residue derived from
 N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<220>
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 <222> (12)..(12)
 <223> Xaa2 is an amino acid residue derived from
 N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<400> 23

Xaa Xaa Ala Tyr His Leu Gly Glu Leu Val Trp Xaa Thr Lys Lys
 1 5 10 15

<210> 24
 <211> 15
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 <213> Artificial Sequence

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 <223> cyclic_peptide_22

<220>
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 <222> (2)..(2)
 <223> Xaa2 is an amino acid residue derived from
 N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<220>
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 <222> (12)..(12)
 <223> Xaa2 is an amino acid residue derived from

N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<400> 24

Glu	Xaa	Ala	Tyr	His	Leu	Gly	Glu	Leu	Val	Trp	Xaa	Thr	Lys	Lys
1				5					10					15

<210> 25

<211> 16

<212> PRT

<213> Artificial Sequence

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<223> cyclic_peptide_23

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> Xaa2 is an amino acid residue derived from
N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<220>

<221> MISC_FEATURE

<222> (12)..(12)

<223> Xaa2 is an amino acid residue derived from
N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<220>

<221> misc_feature

<222> (13)..(13)

<223> Xaa can be any naturally occurring amino acid

<400> 25

Asp	Xaa	Ala	Ala	Tyr	His	Leu	Gly	Glu	Leu	Val	Trp	Xaa	Thr	Lys	Lys
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<210> 26

<211> 17

<212> PRT

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<223> cyclic_peptide_24

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> Xaa2 is an amino acid residue derived from
N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<220>

<221> MISC_FEATURE

<222> (12)..(12)

<223> Xaa2 is an amino acid residue derived from
N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<220>

<221> misc_feature

<222> (14)..(14)

<223> Xaa can be any naturally occurring amino acid

<400> 26

Asp Xaa Ala Ala Ala Tyr His Leu Gly Glu Leu Val Trp Xaa Thr Lys
1 5 10 15

Lys

<210> 27

<211> 18

<212> PRT

<213> Artificial Sequence

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<223> Cyclic_peptide_25

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> Xaa2 is an amino acid residue derived from
N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<220>

<221> MISC_FEATURE

<222> (12)..(12)

<223> Xaa2 is an amino acid residue derived from
N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<220>

<221> misc_feature

<222> (15)..(15)

<223> Xaa can be any naturally occurring amino acid

<400> 27

Asp Xaa Ala Ala Ala Ala Tyr His Leu Gly Glu Leu Val Trp Xaa Thr
1 5 10 15

Lys Lys

<210> 28
 <211> 15
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 <223> cyclic_peptide_26

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 <222> (2)..(2)
 <223> Xaa2 is an amino acid residue derived from
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Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<220>
 <221> MISC_FEATURE
 <222> (12)..(12)
 <223> Xaa2 is an amino acid residue derived from
 N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<400> 28

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

<210> 29
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 <223> cyclic_peptide_27

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 <222> (2)..(2)
 <223> Xaa2 is an amino acid residue derived from
 N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<220>
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 N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<400> 29

Asp Xaa Thr Tyr His Leu Gly Glu Leu Val Trp Xaa Thr Lys Lys
 1 5 10 15

<210> 30

<211> 15

<212> PRT

<213> Artificial Sequence

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<223> Cyclic_peptide_28

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> Xaa2 is an amino acid residue derived from
N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<220>

<221> MISC_FEATURE

<222> (12)..(12)

<223> Xaa2 is an amino acid residue derived from
N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<400> 30

Asp Xaa Ala Phe His Leu Gly Glu Leu Val Trp Xaa Thr Lys Lys
 1 5 10 15

<210> 31

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Cyclic_peptide_29

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> Xaa2 is an amino acid residue derived from
N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<220>

<221> MISC_FEATURE

<222> (12)..(12)

<223> Xaa2 is an amino acid residue derived from
N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<400> 31

Asp Xaa Ala His His Leu Gly Glu Leu Val Trp Xaa Thr Lys Lys
1 5 10 15

<210> 32

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Cyclic_peptide_30

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> Xaa2 is an amino acid residue derived from
N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<220>

<221> MISC_FEATURE

<222> (12)..(12)

<223> Xaa2 is an amino acid residue derived from
N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<400> 32

Asp Xaa Ala Val His Leu Gly Glu Leu Val Trp Xaa Thr Lys Lys
1 5 10 15

<210> 33

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Cyclic_peptide_31

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> Xaa2 is an amino acid residue derived from
N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<220>

<221> MISC_FEATURE

<222> (12)..(12)

<223> Xaa2 is an amino acid residue derived from
N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<400> 33

Asp	Xaa	Ala	Met	His	Leu	Gly	Glu	Leu	Val	Trp	Xaa	Thr	Lys	Lys
1				5					10					15

<210> 34

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Cyclic_peptide_32

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> Xaa2 is an amino acid residue derived from
N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<220>

<221> MISC_FEATURE

<222> (12)..(12)

<223> Xaa2 is an amino acid residue derived from
N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<400> 34

Asp	Xaa	Ala	Tyr	Tyr	Leu	Gly	Glu	Leu	Val	Trp	Xaa	Thr	Lys	Lys
1				5					10					15

<210> 35

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Cyclic_peptide_33

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> Xaa2 is an amino acid residue derived from
N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<220>

<221> MISC_FEATURE

<222> (12)..(12)

<223> Xaa2 is an amino acid residue derived from

N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<400> 35

Asp	Xaa	Ala	Tyr	Trp	Leu	Gly	Glu	Leu	Val	Trp	Xaa	Thr	Lys	Lys
1				5					10					15

<210> 36

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Cyclic_peptide_34

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> Xaa2 is an amino acid residue derived from
N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<220>

<221> MISC_FEATURE

<222> (12)..(12)

<223> Xaa2 is an amino acid residue derived from
N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<400> 36

Asp	Xaa	Ala	Tyr	His	Met	Gly	Glu	Leu	Val	Trp	Xaa	Thr	Lys	Lys
1				5					10					15

<210> 37

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Cyclic_peptide_35

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> Xaa2 is an amino acid residue derived from
N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<220>

<221> MISC_FEATURE

<222> (12)..(12)

<223> Xaa2 is an amino acid residue derived from
N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<400> 37

Asp Xaa Ala Tyr His Phe Gly Glu Leu Val Trp Xaa Thr Lys Lys
1 5 10 15

<210> 38

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Cyclic_peptide_36

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> Xaa2 is an amino acid residue derived from
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Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<220>

<221> MISC_FEATURE

<222> (12)..(12)

<223> Xaa2 is an amino acid residue derived from
N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<400> 38

Asp Xaa Ala Tyr His His Gly Glu Leu Val Trp Xaa Thr Lys Lys
1 5 10 15

<210> 39

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Cyclic_peptide_37

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> Xaa2 is an amino acid residue derived from
N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<220>
 <221> MISC_FEATURE
 <222> (12)..(12)
 <223> Xaa2 is an amino acid residue derived from
 N-epsilon-chloroacetyl-L-lysine.

 Xaa12 is an amino acid residue derived from L-homocysteine.

 Xaa2 and Xaa12 are bridged by a thioether bond.

 <400> 39

Asp	Xaa	Ala	Tyr	His	Val	Gly	Glu	Leu	Val	Trp	Xaa	Thr	Lys	Lys
1				5					10					15

<210> 40
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Cyclic_peptide_38

<220>
 <221> MISC_FEATURE
 <222> (2)..(2)
 <223> Xaa2 is an amino acid residue derived from
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 Xaa12 is an amino acid residue derived from L-homocysteine.

 Xaa2 and Xaa12 are bridged by a thioether bond.

<220>
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 <222> (12)..(12)
 <223> Xaa2 is an amino acid residue derived from
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 Xaa12 is an amino acid residue derived from L-homocysteine.

 Xaa2 and Xaa12 are bridged by a thioether bond.

<400> 40

Asp	Xaa	Ala	Tyr	His	Ile	Gly	Glu	Leu	Val	Trp	Xaa	Thr	Lys	Lys
1				5					10					15

<210> 41
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Cyclic_peptide_39

<220>
 <221> MISC_FEATURE
 <222> (2)..(2)
 <223> Xaa2 is an amino acid residue derived from
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 Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<220>

<221> MISC_FEATURE

<222> (12)..(12)

<223> Xaa2 is an amino acid residue derived from
N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<400> 41

Asp	Xaa	Ala	Tyr	His	Asn	Gly	Glu	Leu	Val	Trp	Xaa	Thr	Lys	Lys
1				5					10					15

<210> 42

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> cyclic_peptide_40

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> Xaa2 is an amino acid residue derived from
N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<220>

<221> MISC_FEATURE

<222> (12)..(12)

<223> Xaa2 is an amino acid residue derived from
N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<400> 42

Asp	Xaa	Ala	Tyr	His	Trp	Gly	Glu	Leu	Val	Trp	Xaa	Thr	Lys	Lys
1				5					10					15

<210> 43

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> cyclic_peptide_41

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> Xaa2 is an amino acid residue derived from
N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<220>

<221> MISC_FEATURE

<222> (12)..(12)

<223> Xaa2 is an amino acid residue derived from
N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<400> 43

Asp Xaa Ala Tyr His Leu Asp Glu Leu Val Trp Xaa Thr Lys Lys
1 5 10 15

<210> 44

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> cyclic_peptide_42

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> Xaa2 is an amino acid residue derived from
N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<220>

<221> MISC_FEATURE

<222> (12)..(12)

<223> Xaa2 is an amino acid residue derived from
N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<400> 44

Asp Xaa Ala Tyr His Leu Glu Glu Leu Val Trp Xaa Thr Lys Lys
1 5 10 15

<210> 45

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> cyclic_peptide_43

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> Xaa2 is an amino acid residue derived from

N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<220>

<221> MISC_FEATURE

<222> (12)..(12)

<223> Xaa2 is an amino acid residue derived from
N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<400> 45

Asp	Xaa	Ala	Tyr	His	Leu	Gly	Asp	Leu	Val	Trp	Xaa	Thr	Lys	Lys
1				5					10					15

<210> 46

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Cyclic_peptide_44

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> Xaa2 is an amino acid residue derived from
N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<220>

<221> MISC_FEATURE

<222> (12)..(12)

<223> Xaa2 is an amino acid residue derived from
N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<400> 46

Asp	Xaa	Ala	Tyr	His	Leu	Gly	Lys	Leu	Val	Trp	Xaa	Thr	Lys	Lys
1				5					10					15

<210> 47

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Cyclic_peptide_45

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> Xaa2 is an amino acid residue derived from
N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<220>

<221> MISC_FEATURE

<222> (12)..(12)

<223> Xaa2 is an amino acid residue derived from
N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<400> 47

Asp	Xaa	Ala	Tyr	His	Leu	Gly	Arg	Leu	Val	Trp	Xaa	Thr	Lys	Lys
1				5					10					15

<210> 48

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> cyclic_peptide_46

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> Xaa2 is an amino acid residue derived from
N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<220>

<221> MISC_FEATURE

<222> (12)..(12)

<223> Xaa2 is an amino acid residue derived from
N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<400> 48

Asp	Xaa	Ala	Tyr	His	Leu	Gly	His	Leu	Val	Trp	Xaa	Thr	Lys	Lys
1				5					10					15

<210> 49

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> cyclic_peptide_47

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> Xaa2 is an amino acid residue derived from
N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<220>

<221> MISC_FEATURE

<222> (12)..(12)

<223> Xaa2 is an amino acid residue derived from
N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<400> 49

Asp	Xaa	Ala	Tyr	His	Leu	Gly	Met	Leu	Val	Trp	Xaa	Thr	Lys	Lys
1				5					10					15

<210> 50

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> cyclic_peptide_48

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> Xaa2 is an amino acid residue derived from
N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<220>

<221> MISC_FEATURE

<222> (12)..(12)

<223> Xaa2 is an amino acid residue induced from
N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue induced from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<220>

<221> MISC_FEATURE

<222> (12)..(12)

<223> Xaa2 is an amino acid residue derived from
N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<400> 50

Asp	Xaa	Ala	Tyr	His	Leu	Gly	Asn	Leu	Val	Trp	Xaa	Thr	Lys	Lys
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

1 5 10 15

<210> 51
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Cyclic_peptide_49

<220>
 <221> MISC_FEATURE
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 <223> Xaa2 is an amino acid residue derived from
 N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<220>
 <221> MISC_FEATURE
 <222> (12)..(12)
 <223> Xaa2 is an amino acid residue derived from
 N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<400> 51

Asp Xaa Ala Tyr His Leu Gly Glu Ile Val Trp Xaa Thr Lys Lys
 1 5 10 15

<210> 52
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Cyclic_peptide_50

<220>
 <221> MISC_FEATURE
 <222> (2)..(2)
 <223> Xaa2 is an amino acid residue derived from
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Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<220>
 <221> MISC_FEATURE
 <222> (12)..(12)
 <223> Xaa2 is an amino acid residue derived from
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Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<400> 52

4129257_1.txt

Asp Xaa Ala Tyr His Leu Gly Glu Met Val Trp Xaa Thr Lys Lys
1 5 10 15

<210> 53
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Cyclic_peptide_51

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa2 is an amino acid residue derived from
N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<220>
<221> MISC_FEATURE
<222> (12)..(12)
<223> Xaa2 is an amino acid residue derived from
N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<400> 53

Asp Xaa Ala Tyr His Leu Gly Glu Lys Val Trp Xaa Thr Lys Lys
1 5 10 15

<210> 54
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Cyclic_peptide_52

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa2 is an amino acid residue derived from
N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<220>
<221> MISC_FEATURE
<222> (12)..(12)
<223> Xaa2 is an amino acid residue induced from
N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue induced from L-homocysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<220>
 <221> MISC_FEATURE
 <222> (12)..(12)
 <223> Xaa2 is an amino acid residue derived from
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 Xaa12 is an amino acid residue derived from L-homocysteine.
 Xaa2 and Xaa12 are bridged by a thioether bond.

<400> 54

Asp	Xaa	Ala	Tyr	His	Leu	Gly	Glu	Arg	Val	Trp	Xaa	Thr	Lys	Lys
1				5					10					15

<210> 55
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Cyclic_peptide_53

<220>
 <221> MISC_FEATURE
 <222> (2)..(2)
 <223> Xaa2 is an amino acid residue derived from
 N-epsilon-chloroacetyl-L-lysine.

 Xaa12 is an amino acid residue derived from L-homocysteine.
 Xaa2 and Xaa12 are bridged by a thioether bond.

<220>
 <221> MISC_FEATURE
 <222> (12)..(12)
 <223> Xaa2 is an amino acid residue derived from
 N-epsilon-chloroacetyl-L-lysine.

 Xaa12 is an amino acid residue derived from L-homocysteine.
 Xaa2 and Xaa12 are bridged by a thioether bond.

<400> 55

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

<210> 56
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Cyclic_peptide_54

<220>
 <221> MISC_FEATURE
 <222> (2)..(2)
 <223> Xaa2 and Xaa12 are amino acid residues derived from
 L-homocysteine.

Xaa2 and Xaa12 are bridged by a disulfide bond.

<220>
 <221> MISC_FEATURE
 <222> (12)..(12)
 <223> Xaa2 and Xaa12 are amino acid residues derived from
 L-homocysteine.

Xaa2 and Xaa12 are bridged by a disulfide bond.

<400> 56

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

<210> 57
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> cyclic_peptide_55

<220>
 <221> MISC_FEATURE
 <222> (2)..(2)
 <223> Xaa2 and Xaa12 are amino acid residues derived from
 L-homocysteine.

Xaa2 and Xaa12 are bridged by a disulfide bond.

<220>
 <221> MISC_FEATURE
 <222> (12)..(12)
 <223> Xaa2 and Xaa12 are amino acid residues derived from
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Xaa2 and Xaa12 are bridged by a disulfide bond..

<400> 57

Asp	Xaa	Thr	Tyr	His	Leu	Gly	Glu	Leu	Val	Trp	Xaa	Thr	Lys	Lys
1				5					10					15

<210> 58
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> cyclic_peptide_56

<220>
 <221> MISC_FEATURE
 <222> (2)..(2)
 <223> Xaa2 and Xaa12 are amino acid residues derived from
 L-homocysteine.

Xaa2 and Xaa12 are bridged by a disulfide bond.

<220>
 <221> MISC_FEATURE
 <222> (12)..(12)
 <223> Xaa2 and Xaa12 are amino acid residues derived from
 L-homocysteine.

Xaa2 and Xaa12 are bridged by a disulfide bond.

<400> 58

Asp Xaa Ala Trp His Leu Gly Glu Leu Val Trp Xaa Thr Lys Lys
1 5 10 15

<210> 59

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> cyclic_peptide_57

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> Xaa2 and Xaa12 are amino acid residues derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a disulfide bond.

<220>

<221> MISC_FEATURE

<222> (12)..(12)

<223> Xaa2 and Xaa12 are amino acid residues derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a disulfide bond.

<400> 59

Asp Xaa Ala Phe His Leu Gly Glu Leu Val Trp Xaa Thr Lys Lys
1 5 10 15

<210> 60

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> cyclic_peptide_58

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> Xaa2 and Xaa12 are amino acid residues derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a disulfide bond.

<220>

<221> MISC_FEATURE

<222> (12)..(12)

<223> Xaa2 and Xaa12 are amino acid residues derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a disulfide bond.

<400> 60

Asp Xaa Ala His His Leu Gly Glu Leu Val Trp Xaa Thr Lys Lys

1 5 10 15

<210> 61
 <211> 15
 <212> PRT
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<220>
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 <221> MISC_FEATURE
 <222> (2)..(2)
 <223> Xaa2 and Xaa12 are amino acid residues derived from
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Xaa2 and Xaa12 are bridged by a disulfide bond.

<220>
 <221> MISC_FEATURE
 <222> (12)..(12)
 <223> Xaa2 and Xaa12 are amino acid residues derived from
 L-homocysteine.

Xaa2 and Xaa12 are bridged by a disulfide bond.

<400> 61

Asp Xaa Ala Tyr Tyr Leu Gly Glu Leu Val Trp Xaa Thr Lys Lys
 1 5 10 15

<210> 62
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
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 <223> Xaa2 and Xaa12 are amino acid residues derived from
 L-homocysteine.

Xaa2 and Xaa12 are bridged by a disulfide bond.

<220>
 <221> MISC_FEATURE
 <222> (12)..(12)
 <223> Xaa2 and Xaa12 are amino acid residues derived from
 L-homocysteine.

Xaa2 and Xaa12 are bridged by a disulfide bond.

<400> 62

Asp Xaa Ala Tyr His Met Gly Glu Leu Val Trp Xaa Thr Lys Lys
 1 5 10 15

<210> 63
 <211> 15
 <212> PRT

<213> Artificial Sequence

<220>

<223> cyclic_peptide_61

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> Xaa2 and Xaa12 are amino acid residues derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a disulfide bond.

<220>

<221> MISC_FEATURE

<222> (12)..(12)

<223> Xaa2 and Xaa12 are amino acid residues derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a disulfide bond.

<400> 63

Asp	Xaa	Ala	Tyr	His	Phe	Gly	Glu	Leu	Val	Trp	Xaa	Thr	Lys	Lys
1				5					10					15

<210> 64

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> cyclic_peptide_62

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> Xaa2 and Xaa12 are amino acid residues derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a disulfide bond.

<220>

<221> MISC_FEATURE

<222> (12)..(12)

<223> Xaa2 and Xaa12 are amino acid residues derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a disulfide bond.

<400> 64

Asp	Xaa	Ala	Tyr	His	His	Gly	Glu	Leu	Val	Trp	Xaa	Thr	Lys	Lys
1				5					10					15

<210> 65

<211> 15

<212> PRT

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<223> cyclic_peptide_63

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Xaa2 and Xaa12 are bridged by a disulfide bond.

<220>
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 <223> Xaa2 and Xaa12 are amino acid residues derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a disulfide bond.

<400> 65

Asp	Xaa	Ala	Tyr	His	Leu	Gly	Asp	Leu	Val	Trp	Xaa	Thr	Lys	Lys
1				5					10					15

<210> 66
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 <212> PRT
 <213> Artificial Sequence

<220>
 <223> cyclic_peptide_64

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 <223> Xaa2 and Xaa12 are amino acid residues derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a disulfide bond.

<220>
 <221> MISC_FEATURE
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 <223> Xaa2 and Xaa12 are amino acid residues derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a disulfide bond.

<400> 66

Asp	Xaa	Ala	Tyr	His	Leu	Gly	Met	Leu	Val	Trp	Xaa	Thr	Lys	Lys
1				5					10					15

<210> 67
 <211> 15
 <212> PRT
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 <223> cyclic_peptide_65

<220>
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 <222> (2)..(2)
 <223> Xaa2 and Xaa12 are amino acid residues derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a disulfide bond.

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<220>
<221> MISC_FEATURE
<222> (12)..(12)
<223> Xaa2 and Xaa12 are amino acid residues derived from
      L-homocysteine.
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Xaa2 and Xaa12 are bridged by a disulfide bond.

<400> 67

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Asp Xaa Ala Tyr His Leu Gly His Leu Val Trp Xaa Thr Lys Lys
 1           5           10          15
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<210> 68
<211> 15
<212> PRT
<213> Artificial Sequence
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<220>
<223> cyclic_peptide_66
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<220>
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<222> (2)..(2)
<223> Xaa2 and Xaa12 are amino acid residues derived from
      L-homocysteine.
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Xaa2 and Xaa12 are bridged by a disulfide bond.

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<220>
<221> MISC_FEATURE
<222> (12)..(12)
<223> Xaa2 and Xaa12 are amino acid residues derived from
      L-homocysteine.
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Xaa2 and Xaa12 are bridged by a disulfide bond.

<400> 68

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Asp Xaa Ala Tyr His Leu Gly Asn Leu Val Trp Xaa Thr Lys Lys
 1           5           10          15
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<210> 69
<211> 15
<212> PRT
<213> Artificial Sequence
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<220>
<223> cyclic_peptide_67
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<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa2 and Xaa12 are amino acid residues derived from
      L-homocysteine.
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Xaa2 and Xaa12 are bridged by a disulfide bond.

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<220>
<221> MISC_FEATURE
<222> (12)..(12)
<223> Xaa2 and Xaa12 are amino acid residues derived from
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L-homocysteine.

Xaa2 and Xaa12 are bridged by a disulfide bond.

<400> 69

Asp	Xaa	Ala	Tyr	His	Leu	Gly	Glu	Ile	Val	Trp	Xaa	Thr	Lys	Lys
1				5					10					15

<210> 70

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> cyclic_peptide_68

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> Xaa2 and Xaa12 are amino acid residues derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a disulfide bond.

<220>

<221> MISC_FEATURE

<222> (12)..(12)

<223> Xaa2 and Xaa12 are amino acid residues derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a disulfide bond.

<400> 70

Asp	Xaa	Ala	Tyr	His	Leu	Gly	Glu	Met	Val	Trp	Xaa	Thr	Lys	Lys
1				5					10					15

<210> 71

<211> 15

<212> PRT

<213> Artificial Sequence

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<223> cyclic_peptide_69

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> Xaa2 and Xaa12 are amino acid residues derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a disulfide bond.

<220>

<221> MISC_FEATURE

<222> (12)..(12)

<223> Xaa2 and Xaa12 are amino acid residues derived from L-homocysteine.

Xaa2 and Xaa12 are bridged by a disulfide bond.

<400> 71

Asp Xaa Ala Tyr His Leu Gly Glu Lys Val Trp Xaa Thr Lys Lys
 1 5 10 15

<210> 72
 <211> 15
 <212> PRT
 <213> Artificial Sequence

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<220>
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 L-homocysteine.

Xaa2 and Xaa12 are bridged by a disulfide bond.

<220>
 <221> MISC_FEATURE
 <222> (12)..(12)
 <223> Xaa2 and Xaa12 are amino acid residues induced from
 L-homocysteine.

Xaa2 and Xaa12 are bridged by a disulfide bond.

<220>
 <221> MISC_FEATURE
 <222> (12)..(12)
 <223> Xaa2 and Xaa12 are amino acid residues derived from
 L-homocysteine.

Xaa2 and Xaa12 are bridged by a disulfide bond.

<400> 72

Asp Xaa Ala Tyr His Leu Gly Glu Arg Val Trp Xaa Thr Lys Lys
 1 5 10 15

<210> 73
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> cyclic_peptide_71

<220>
 <221> MISC_FEATURE
 <222> (2)..(2)
 <223> Xaa2 and Xaa12 are amino acid residues derived from
 L-homocysteine.

Xaa2 and Xaa12 are bridged by a disulfide bond.

<220>
 <221> MISC_FEATURE
 <222> (12)..(12)
 <223> Xaa2 and Xaa12 are amino acid residues derived from
 L-homocysteine.

Xaa2 and Xaa12 are bridged by a disulfide bond.

<400> 73

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

<210> 74

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> cyclic_peptide_72

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> Xaa2 is an amino acid residue derived from
N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-penicillamine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<220>

<221> MISC_FEATURE

<222> (12)..(12)

<223> Xaa2 is an amino acid residue derived from
N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-penicillamine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<400> 74

Asp Xaa Ala Tyr His Leu Gly Glu Leu Val Trp Xaa Thr Lys Lys
 1 5 10 15

<210> 75

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> cyclic_peptide_73

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> Xaa2 is an amino acid residue derived from L-penicillamine.

Xaa12 is an amino acid residue derived from
N-epsilon-chloroacetyl-L-lysine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<220>

<221> MISC_FEATURE

<222> (12)..(12)

<223> Xaa2 is an amino acid residue derived from L-penicillamine.

Xaa12 is an amino acid residue derived from
N-epsilon-chloroacetyl-L-lysine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<400> 75

Asp Xaa Ala Tyr His Leu Gly Glu Leu Val Trp Xaa Thr Lys Lys
1 5 10 15

<210> 76

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Cyclic_peptide_74

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> Xaa2 is an amino acid residue derived from
N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-penicillamine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<220>

<221> MISC_FEATURE

<222> (12)..(12)

<223> Xaa2 is an amino acid residue derived from
N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-penicillamine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<400> 76

Asp Xaa Ala Tyr His Arg Gly Glu Leu Val Trp Xaa Thr Lys Lys
1 5 10 15

<210> 77

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Cyclic_peptide_75

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> Xaa2 is an amino acid residue derived from
N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-penicillamine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<220>

<221> MISC_FEATURE

<222> (12)..(12)

<223> Xaa2 is an amino acid residue derived from
N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-penicillamine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<220>

<221> MISC_FEATURE

<222> (13)..(13)

<223> Xaa13 is an amino acid residue derived from L-homoserine.

<400> 77

Asp Xaa Ala Tyr His Leu Gly Glu Leu Val Trp Xaa Xaa Lys Lys
1 5 10 15

<210> 78

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> cyclic_peptide_76

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> Xaa2 is an amino acid residue derived from
(2S)-2-amino-3-[(2-chloroacetyl)amino]propanoic acid.

Xaa12 is an amino acid residue derived from L-cysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<220>

<221> MISC_FEATURE

<222> (12)..(12)

<223> Xaa2 is an amino acid residue derived from
(2S)-2-amino-3-[(2-chloroacetyl)amino]propanoic acid.

Xaa12 is an amino acid residue derived from L-cysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<400> 78

Asp Xaa Ala Tyr His Leu Gly Glu Leu Val Trp Xaa Thr Lys Lys
1 5 10 15

<210> 79

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> cyclic_peptide_77

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> Xaa2 is an amino acid residue derived from
(2S)-2-amino-4-[(2-chloroacetyl)amino]butanoic acid.

Xaa12 is an amino acid residue derived from L-cysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<220>
 <221> MISC_FEATURE
 <222> (12)..(12)
 <223> Xaa2 is an amino acid residue derived from
 (2S)-2-amino-4-[(2-chloroacetyl)amino]butanoic acid.
 Xaa12 is an amino acid residue derived from L-cysteine.
 Xaa2 and Xaa12 are bridged by a thioether bond.

<400> 79

Asp	Xaa	Ala	Tyr	His	Leu	Gly	Glu	Leu	Val	Trp	Xaa	Thr	Lys	Lys
1				5					10					15

<210> 80
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Cyclic_peptide_78

<220>
 <221> MISC_FEATURE
 <222> (2)..(2)
 <223> Xaa2 is an amino acid residue derived from
 N-delta-chloroacetyl-L-ornithine.
 Xaa12 is an amino acid residue derived from L-cysteine.
 Xaa2 and Xaa12 are bridged by a thioether bond.

<220>
 <221> MISC_FEATURE
 <222> (12)..(12)
 <223> Xaa2 is an amino acid residue derived from
 N-delta-chloroacetyl-L-ornithine.
 Xaa12 is an amino acid residue derived from L-cysteine.
 Xaa2 and Xaa12 are bridged by a thioether bond.

<400> 80

Asp	Xaa	Ala	Tyr	His	Leu	Gly	Glu	Leu	Val	Trp	Xaa	Thr	Lys	Lys
1				5					10					15

<210> 81
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Cyclic_peptide_79

<220>
 <221> MISC_FEATURE
 <222> (2)..(2)
 <223> Xaa2 is an amino acid residue derived from
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 Xaa12 is an amino acid residue derived from L-cysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<220>

<221> MISC_FEATURE

<222> (12)..(12)

<223> Xaa2 is an amino acid residue derived from
N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-cysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<400> 81

Asp	Xaa	Ala	Tyr	His	Leu	Gly	Glu	Leu	Val	Trp	Xaa	Thr	Lys	Lys
1				5					10					15

<210> 82

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Cyclic_peptide_80

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> Xaa2 is an amino acid residue derived from L-cysteine.

Xaa12 is an amino acid residue derived from
(2S)-2-amino-3-[(2-chloroacetyl)amino]propanoic acid.

Xaa2 and Xaa12 are bridged by a thioether bond.

<220>

<221> MISC_FEATURE

<222> (12)..(12)

<223> Xaa2 is an amino acid residue derived from L-cysteine.

Xaa12 is an amino acid residue derived from
(2S)-2-amino-3-[(2-chloroacetyl)amino]propanoic acid.

Xaa2 and Xaa12 are bridged by a thioether bond.

<400> 82

Asp	Xaa	Ala	Tyr	His	Leu	Gly	Glu	Leu	Val	Trp	Xaa	Thr	Lys	Lys
1				5					10					15

<210> 83

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Cyclic_peptide_81

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> Xaa2 is an amino acid residue derived from L-cysteine.

Xaa12 is an amino acid residue derived from
(2S)-2-amino-4-[(2-chloroacetyl)amino]butanoic acid.

Xaa2 and Xaa12 are bridged by a thioether bond.

<220>

<221> MISC_FEATURE

<222> (12)..(12)

<223> Xaa2 is an amino acid residue derived from L-cysteine.

Xaa12 is an amino acid residue derived from
(2S)-2-amino-4-[(2-chloroacetyl)amino]butanoic acid.

Xaa2 and Xaa12 are bridged by a thioether bond.

<400> 83

Asp	Xaa	Ala	Tyr	His	Leu	Gly	Glu	Leu	Val	Trp	Xaa	Thr	Lys	Lys
1				5					10				15	

<210> 84

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Cyclic peptide 87

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> Xaa2 is an amino acid residue derived from L-cysteine.

Xaa12 is an amino acid residue derived from
N-delta-chloroacetyl-L-ornithine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<220>

<221> MISC_FEATURE

<222> (12)..(12)

<223> Xaa2 is an amino acid residue derived from L-cysteine.

Xaa12 is an amino acid residue derived from
N-delta-chloroacetyl-L-ornithine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<400> 84

Asp	Xaa	Ala	Tyr	His	Leu	Gly	Glu	Leu	Val	Trp	Xaa	Thr	Lys	Lys
1				5					10				15	

<210> 85

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Cyclic_peptide_83

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> Xaa2 is an amino acid residue derived from L-cysteine.

Xaa12 is an amino acid residue derived from
N-epsilon-chloroacetyl-L-lysine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<220>

<221> MISC_FEATURE

<222> (12)..(12)

<223> Xaa2 is an amino acid residue derived from L-cysteine.

Xaa12 is an amino acid residue derived from
N-epsilon-chloroacetyl-L-lysine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<400> 85

Asp	Xaa	Ala	Tyr	His	Leu	Gly	Glu	Leu	Val	Trp	Xaa	Thr	Lys	Lys
1				5					10					15

<210> 86

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> cyclic_peptide_91

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> Xaa2 is an amino acid residue derived from L-glutamic acid.

Xaa12 is an amino acid residue derived from L-lysine.

Xaa2 and Xaa12 are bridged by an amide bond.

<220>

<221> MISC_FEATURE

<222> (12)..(12)

<223> Xaa2 is an amino acid residue derived from L-glutamic acid.

Xaa12 is an amino acid residue derived from L-lysine.

Xaa2 and Xaa12 are bridged by an amide bond.

<400> 86

Asp	Xaa	Ala	Tyr	His	Arg	Gly	Glu	Leu	Val	Trp	Xaa	Thr	Lys	Lys
1				5					10					15

<210> 87

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> cyclic_peptide_92

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> Xaa2 and Xaa12 are amino acid residues derived from L-cysteine.
Xaa2 and Xaa12 are bridged by a disulfide bond.

<220>

<221> MISC_FEATURE

<222> (12)..(12)

<223> Xaa2 and Xaa12 are amino acid residues derived from L-cysteine.
Xaa2 and Xaa12 are bridged by a disulfide bond.

<400> 87

Asp	Xaa	Ala	Tyr	His	Arg	Gly	Glu	Leu	Val	Trp	Xaa	Thr	Lys	Lys
1				5					10					15

<210> 88

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Cyclic_peptide_93

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> Xaa2 is an amino acid residue derived from
N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-penicillamine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<220>

<221> MISC_FEATURE

<222> (12)..(12)

<223> Xaa2 is an amino acid residue derived from
N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-penicillamine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<400> 88

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

<210> 89

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Cyclic_peptide_94

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> Xaa2 is an amino acid residue derived from
N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-cysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<220>

<221> MISC_FEATURE

<222> (12)..(12)

<223> Xaa2 is an amino acid residue derived from
N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-cysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<400> 89

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

<210> 90

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Cyclic_peptide_95

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> Xaa2 is an amino acid residue derived from
N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-cysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<220>

<221> MISC_FEATURE

<222> (12)..(12)

<223> Xaa2 is an amino acid residue derived from
N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-cysteine.

Xaa2 and Xaa12 are bridged by a thioether bond.

<400> 90

Asp	Xaa	Ala	Tyr	His	Arg	Gly	Glu	Leu	Val	Trp	Xaa	Thr	Lys	Lys
1				5					10					15

<210> 91

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Cyclic_peptide_96

<220>

<221> MISC_FEATURE

<222> (1)..(1)

<223> Xaa1 is an amino acid residue derived from L-homoserine.

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> Xaa2 is an amino acid residue derived from
N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-cysteine.

Xaa2 and Xaa12 are bridged by a tioether bond.

<220>

<221> MISC_FEATURE

<222> (12)..(12)

<223> Xaa2 is an amino acid residue derived from
N-epsilon-chloroacetyl-L-lysine.

Xaa12 is an amino acid residue derived from L-cysteine.

Xaa2 and Xaa12 are bridged by a tioether bond.

<400> 91

Xaa	Xaa	Ala	Tyr	His	Arg	Gly	Glu	Leu	Val	Trp	Xaa	Thr	Lys	Lys
1				5					10					15