

9869SG2135_ST25.txt
SEQUENCE LISTING

<110> Agency for Science, Technology and Research (A*STAR)

<120> PEPTIDES AND THEIR USES

<130> 9869SG2135

<150> SG201206671-8

<151> 2012-09-07

<160> 47

<170> PatentIn version 3.5

<210> 1

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Formula I

<220>

<221> MISC_FEATURE

<222> (1)..(5)

<223> may be repeated as a branched peptide, where n is more than 1

<220>

<221> MISC_FEATURE

<222> (2)..(3)

<223> X is optionally lysine (K), arginine (R), glycine (G) and alanine (A)

<220>

<221> MISC_FEATURE

<222> (4)..(4)

<223> X is optionally lysine (K), arginine (R), leucine (L), valine (V), isoleucine (I), glycine (G) or alanine (A)

<220>

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<222> (5)..(5)

<223> X is optionally lysine (K), arginine (R), glycine (G) and alanine (A)

<400> 1

Arg Xaa Xaa Xaa Xaa

1 5

<210> 2

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Formula II

<220>

<221> MISC_FEATURE

<222> (1)..(7)

<223> may be repeated (i.e. in a branched peptide)

<220>

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<221> MISC_FEATURE
 <222> (2)..(2)
 <223> glycine (G) or alanine (A)

<220>
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 <222> (4)..(4)
 <223> glycine (G) or alanine (A)

<220>
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 <222> (6)..(6)
 <223> glycine (G) or alanine (A)

<400> 2

Arg Xaa Lys Xaa Arg Xaa Lys Lys Lys
 1 5

<210> 3
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> n is 2, peptide is a branched dimer

<220>
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 <222> (1)..(7)
 <223> may be repeated in a branched peptide

<220>
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 <222> (1)..(7)
 <223> may be repeated twice in a dimer

<220>
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 <222> (2)..(2)
 <223> X may be glycine (G) or alanine (A)

<220>
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 <222> (4)..(4)
 <223> X may be glycine (G) or alanine (A)

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 <223> X may be glycine (G) or alanine (A)

<220>
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 <222> (11)..(11)
 <223> X may be glycine (G) or alanine (A)

<220>
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 <222> (13)..(13)
 <223> X may be glycine (G) or alanine (A)

<220>
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 <222> (15)..(15)
 <223> X may be glycine (G) or alanine (A)

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<400> 3

Arg Xaa Lys Xaa Arg Xaa Lys Lys Lys Lys Xaa Arg Xaa Lys Xaa Arg
 1 5 10 15

<210> 4

<211> 16

<212> PRT

<213> artificial sequence

<220>

<223> n is 3, a branched peptide, a trimer

<220>

<221> MISC_FEATURE

<222> (1)..(7)

<223> may be repeated twice, in which case peptide is a trimer

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> x may be glycine (G) or alanine (A)

<220>

<221> MISC_FEATURE

<222> (4)..(4)

<223> x may be glycine (G) or alanine (A)

<220>

<221> MISC_FEATURE

<222> (6)..(6)

<223> x may be glycine (G) or alanine (A)

<220>

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<222> (11)..(11)

<223> x may be glycine (G) or alanine (A)

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<222> (13)..(13)

<223> x may be glycine (G) or alanine (A)

<220>

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<222> (15)..(15)

<223> x may be glycine (G) or alanine (A)

<400> 4

Arg Xaa Lys Xaa Arg Xaa Lys Lys Lys Lys Xaa Arg Xaa Lys Xaa Arg
 1 5 10 15

<210> 5

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> n is 4, branched peptide is a tetramer

<220>

<221> MISC_FEATURE

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<222> (1)..(7)
 <223> may be repeated four times, in which case is a tetramer

<220>
 <221> MISC_FEATURE
 <222> (2)..(2)
 <223> X may be glycine (G) or alanine (A)

<220>
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 <222> (4)..(4)
 <223> X may be glycine (G) or alanine (A)

<220>
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 <222> (6)..(6)
 <223> X may be glycine (G) or alanine (A)

<400> 5

Arg Xaa Lys Xaa Arg Xaa Lys Lys Lys
 1 5

<210> 6
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 <213> artificial sequence

<220>
 <223> artificial peptide

<220>
 <221> MISC_FEATURE
 <222> (1)..(7)
 <223> may be repeated in a branched peptide

<220>
 <221> MISC_FEATURE
 <222> (2)..(2)
 <223> x may be arginine (R), histidine (H), lysine (K), aspartic acid (D), glutamic acid (E), serine (S), threonine (T), asparagine (N), glutamine (Q), cysteine (C), glycine (G), proline (P) or alanine (A).

<220>
 <221> MISC_FEATURE
 <222> (5)..(5)
 <223> x may be arginine (R), histidine (H), lysine (K), aspartic acid (D), glutamic acid (E), serine (S), threonine (T), asparagine (N), glutamine (Q), cysteine (C), glycine (G), proline (P) or alanine (A).

<400> 6

Arg Xaa Arg Lys Xaa Arg Arg Lys Lys
 1 5

<210> 7
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> artificial peptide

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<220>
 <221> MISC_FEATURE
 <222> (1)..(7)
 <223> may be repeated in branched peptides

<220>
 <221> MISC_FEATURE
 <222> (5)..(5)
 <223> may be glycine (G) or alanine (A)

<400> 7

Arg Ala Arg Lys Xaa Arg Arg Lys Lys
 1 5

<210> 8
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> artificial peptide

<220>
 <221> MISC_FEATURE
 <222> (1)..(8)
 <223> repeated twice as a dimer and linked at lysine at position 9

<400> 8

Arg Ala Arg Lys Ala Ala Arg Arg Lys Lys
 1 5 10

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

<220>
 <223> artificial peptide

<220>
 <221> MISC_FEATURE
 <222> (1)..(6)
 <223> repeated twice as a dimer, linked at lysine residue at position 7

<400> 9

Arg Ala Arg Lys Arg Arg Lys Lys
 1 5

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

<220>
 <223> artificial peptide

<220>
 <221> MISC_FEATURE

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<222> (1)..(7)
 <223> may be repeated in branched peptides, linked at lysine residue at position 8

<220>
 <221> MISC_FEATURE
 <222> (5)..(5)
 <223> X may be valine (V), glycine (G) or alanine (A)

<400> 10

Arg Gly Arg Lys Xaa Arg Arg Lys Lys
 1 5

<210> 11
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> artificial peptide

<220>
 <221> MISC_FEATURE
 <222> (1)..(8)
 <223> repeated twice as a dimer, linked at lysine at position 9

<400> 11

Arg Gly Arg Lys Gly Gly Arg Arg Lys Lys
 1 5 10

<210> 12
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> artificial peptide

<400> 12

Arg Gly Arg Lys Gly Gly Arg Arg Lys Lys
 1 5 10

<210> 13
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> artificial peptide

<220>
 <221> MISC_FEATURE
 <222> (1)..(7)
 <223> repeated twice as a dimer, linked at lysine residue at position 8

<400> 13

Arg Gly Arg Lys Gly Arg Arg Lys Lys
 1 5

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<210> 14
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> artificial peptide

<220>
 <221> MISC_FEATURE
 <222> (1)..(6)
 <223> repeated twice as a dimer, linked at lysine residue at position 7

<400> 14

Arg Gly Arg Lys Arg Arg Lys Lys
 1 5

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

<220>
 <223> artificial peptide

<220>
 <221> MISC_FEATURE
 <222> (1)..(8)
 <223> repeated twice as a dimer, linked at lysine residue at position 9

<400> 15

Arg Gly Arg Lys Ala Ala Arg Arg Lys Lys
 1 5 10

<210> 16
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> artificial peptide

<220>
 <221> MISC_FEATURE
 <222> (1)..(7)
 <223> repeated twice as a dimer, linked at lysine residue at position 8

<400> 16

Arg Gly Arg Lys Ala Arg Arg Lys Lys
 1 5

<210> 17
 <211> 18
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> artificial peptide

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<220>
 <221> MISC_FEATURE
 <222> (1)..(8)
 <223> repeated twice thus forming a trimer, linked at lysine residues
 at position 9 and 10

<400> 17

Arg Gly Arg Lys Gly Gly Arg Arg Lys Lys Arg Arg Gly Gly Lys Arg
 1 5 10 15

Gly Arg

<210> 18
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> artificial peptide

<220>
 <221> MISC_FEATURE
 <222> (1)..(7)
 <223> repeated twice thus forming a trimer, linked at lysine residue at
 positions 8 and 9

<400> 18

Arg Gly Arg Lys Gly Arg Arg Lys Lys Arg Arg Gly Lys Arg Gly Arg
 1 5 10 15

<210> 19
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> artificial peptide

<220>
 <221> MISC_FEATURE
 <222> (1)..(6)
 <223> repeated twice thus forming a trimer, linked at lysine residue at
 positions 7 and 8

<400> 19

Arg Gly Arg Lys Arg Arg Lys Lys Arg Arg Lys Arg Gly Arg
 1 5 10

<210> 20
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> artificial peptide

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<220>
 <221> MISC_FEATURE
 <222> (1)..(5)
 <223> may be repeated to form branched peptides

<400> 20

Arg Arg Lys Arg Arg Lys Lys
 1 5

<210> 21
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> artificial peptide

<220>
 <221> MISC_FEATURE
 <222> (1)..(5)
 <223> repeated twice to form a dimer, linked by lysine at position 6

<400> 21

Arg Arg Lys Arg Arg Lys Lys
 1 5

<210> 22
 <211> 12
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> artificial peptide

<220>
 <221> MISC_FEATURE
 <222> (1)..(5)
 <223> repeated twice, thus forming a trimer linked at lysine residues at positions 6 and 7

<400> 22

Arg Arg Lys Arg Arg Lys Lys Arg Arg Lys Arg Arg
 1 5 10

<210> 23
 <211> 7
 <212> PRT
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<220>
 <223> artificial peptide

<220>
 <221> MISC_FEATURE
 <222> (1)..(5)
 <223> may be repeated in branched peptides

<220>

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<221> MISC_FEATURE
 <222> (3)..(3)
 <223> X may be a non-hydrophobic amino acids

<400> 23

Arg Lys Xaa Arg Lys Lys Lys
 1 5

<210> 24
 <211> 7
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 <213> Artificial Sequence

<220>
 <223> artificial peptide

<220>
 <221> MISC_FEATURE
 <222> (1)..(5)
 <223> repeated twice to form a dimer, linked at lysine residue at position 6

<220>
 <221> MISC_FEATURE
 <222> (3)..(3)
 <223> X may be glycine (G) or alanine (A)

<400> 24

Arg Lys Xaa Arg Lys Lys Lys
 1 5

<210> 25
 <211> 12
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> artificial peptide

<220>
 <221> MISC_FEATURE
 <222> (1)..(5)
 <223> repeated twice, thus forming a trimer peptide linked by lysine residues at positions 6 and 7

<220>
 <221> MISC_FEATURE
 <222> (3)..(3)
 <223> may be glycine (G) or alanine (A)

<220>
 <221> MISC_FEATURE
 <222> (10)..(10)
 <223> may be glycine (G) or alanine (A)

<400> 25

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

<210> 26

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

<220>
 <223> artificial peptide

<220>
 <221> MISC_FEATURE
 <222> (1)..(5)
 <223> repeated four times, thus forming a tetramer, linked at lysine residues at positions 6 to 9

<400> 26

Arg Lys Xaa Arg Lys Lys Lys Lys Lys
 1 5

<210> 27
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> artificial peptide

<220>
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 <222> (1)..(1)
 <223> X is a lipid group

<220>
 <221> MISC_FEATURE
 <222> (2)..(7)
 <223> may be repeated in branched peptides

<220>
 <221> MISC_FEATURE
 <222> (6)..(7)
 <223> X may be arginine (R), histidine (H), lysine (K), aspartic acid (D), glutamic acid (E), serine (S), threonine (T), asparagine (N), glutamine (Q), cysteine (C), glycine (G), proline (P), alanine (A), isoleucine (I), leucine (L) or valine (V)

<220>
 <221> MISC_FEATURE
 <222> (9)..(9)
 <223> X may be arginine (R), histidine (H), lysine (K), aspartic acid (D), glutamic acid (E), serine (S), threonine (T), asparagine (N), glutamine (Q), cysteine (C), glycine (G), proline (P), alanine (A) or valine (V)

<400> 27

Xaa Arg Gly Arg Lys Xaa Xaa Arg Xaa
 1 5

<210> 28
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> C2-V2D or C2-V2 dimer

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<220>
 <221> MISC_FEATURE
 <222> (1)..(8)
 <223> repeated twice as a dimer, linked at lysine residue at position 9

<220>
 <221> MISC_FEATURE
 <222> (1)..(1)
 <223> linked to a lipid group CH3-CONH

<400> 28

Arg Gly Arg Lys Val Val Arg Arg Lys Lys
 1 5 10

<210> 29
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> C4-V2D or C4-V2 dimer

<220>
 <221> MISC_FEATURE
 <222> (1)..(8)
 <223> repeated twice to form a dimer

<220>
 <221> MISC_FEATURE
 <222> (1)..(8)
 <223> repeated twice to form a dimer, linked by lysine residue at position 9

<220>
 <221> MISC_FEATURE
 <222> (1)..(1)
 <223> linked to a lipid group: C3H70CO0NH

<400> 29

Arg Gly Arg Lys Val Val Arg Arg Lys Lys
 1 5 10

<210> 30
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> C6-V2D or C6-V2 dimer

<220>
 <221> MISC_FEATURE
 <222> (1)..(8)
 <223> repeated twice to form a dimer, linked by lysine residue at position 9

<220>
 <221> MISC_FEATURE
 <222> (1)..(1)
 <223> linked to a lipid group: C5H11-CONH

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<400> 30

Arg Gly Arg Lys Val Val Arg Arg Lys Lys
 1 5 10

<210> 31

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> C8-V2D or C8-V2-dimer

<220>

<221> MISC_FEATURE

<222> (1)..(1)

<223> linked to a lipid group: C7H15-CONH

<220>

<221> MISC_FEATURE

<222> (1)..(8)

<223> repeated twice to form a dimer, linked by lysine residue at position 9

<400> 31

Arg Gly Arg Lys Val Val Arg Arg Lys Lys
 1 5 10

<210> 32

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> C10-V2D or C10-V2-dimer

<220>

<221> MISC_FEATURE

<222> (1)..(1)

<223> linked to a lipid group: C9H19-CONH

<220>

<221> MISC_FEATURE

<222> (1)..(8)

<223> repeated twice to form a dimer, linked by lysine residue at position 9

<400> 32

Arg Gly Arg Lys Val Val Arg Arg Lys Lys
 1 5 10

<210> 33

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> C12-V2D or C12-V2-dimer

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<220>
 <221> MISC_FEATURE
 <222> (1)..(1)
 <223> linked to a lipid group: C11H21-CONH

<220>
 <221> MISC_FEATURE
 <222> (1)..(8)
 <223> repeated twice to form a dimer, linked by lysine residue at position 9

<400> 33

Arg Gly Arg Lys Val Val Arg Arg Lys Lys
 1 5 10

<210> 34
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> C14-V2D or C14-V2-dimer

<220>
 <221> MISC_FEATURE
 <222> (1)..(1)
 <223> linked to a lipid group: C13H23-CONH-

<220>
 <221> MISC_FEATURE
 <222> (1)..(8)
 <223> repeated twice to form a dimer, linked by lysine residue at position 9

<400> 34

Arg Gly Arg Lys Val Val Arg Arg Lys Lys
 1 5 10

<210> 35
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> C16-V2D or C16-V2-dimer

<220>
 <221> MISC_FEATURE
 <222> (1)..(1)
 <223> linked to a lipid group: C15H31-CONH

<220>
 <221> MISC_FEATURE
 <222> (1)..(6)
 <223> repeated twice to form a dimer, linked by lysine residue at position 7

<400> 35

Arg Gly Arg Lys Val Val Lys Lys
 1 5

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<210> 36
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> C2-G2D or C2-G2-dimer

<220>
 <221> MISC_FEATURE
 <222> (1)..(8)
 <223> repeated twice to form a dimer, linked by lysine residue at position 9

<220>
 <221> MISC_FEATURE
 <222> (1)..(1)
 <223> linked to a lipid group: CH3-CONH

<400> 36

Arg Gly Arg Lys Gly Gly Arg Arg Lys Lys
 1 5 10

<210> 37
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> C4-G2D or C4-G2-dimer

<220>
 <221> MISC_FEATURE
 <222> (1)..(8)
 <223> repeated twice to form a dimer, linked by lysine residue at position 9

<220>
 <221> MISC_FEATURE
 <222> (1)..(1)
 <223> linked to a lipid group: C3H7-CONH

<400> 37

Arg Gly Arg Lys Gly Gly Arg Arg Lys Lys
 1 5 10

<210> 38
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> C6-G2D or C6-G2-dimer

<220>
 <221> MISC_FEATURE
 <222> (1)..(8)
 <223> repeated twice to form a dimer, linked by lysine residue at position 9

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<220>
 <221> MISC_FEATURE
 <222> (1)..(1)
 <223> linked to a lipid group: C5H11-CONH

<400> 38

Arg Gly Arg Lys Gly Gly Arg Arg Lys Lys
 1 5 10

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

<220>
 <223> C8-G2D or C8-G2-dimer

<220>
 <221> MISC_FEATURE
 <222> (1)..(8)
 <223> repeated twice to form a dimer, linked by lysine residue at position 9

<220>
 <221> MISC_FEATURE
 <222> (1)..(1)
 <223> linked to a lipid group: C7H15-CO-NH

<400> 39

Arg Gly Arg Lys Gly Gly Arg Arg Lys Lys
 1 5 10

<210> 40
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> C10-G2D or C10-G2-dimer

<220>
 <221> MISC_FEATURE
 <222> (1)..(1)
 <223> linked to a lipid group: C9H19-CONH-

<220>
 <221> MISC_FEATURE
 <222> (1)..(8)
 <223> repeated twice to form a dimer, linked by lysine residue at position 9

<400> 40

Arg Gly Arg Lys Gly Gly Arg Arg Lys Lys
 1 5 10

<210> 41
 <211> 10
 <212> PRT
 <213> Artificial Sequence

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<220>
 <223> C12-G2D or C12-G2-dimer

<220>
 <221> MISC_FEATURE
 <222> (1)..(1)
 <223> linked to a lipid group: C11H23-CONH-

<220>
 <221> MISC_FEATURE
 <222> (1)..(8)
 <223> repeated twice to form a dimer, linked by lysine residue at position 9

<400> 41

Arg Gly Arg Lys Gly Gly Arg Arg Lys Lys
 1 5 10

<210> 42
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> C14-G2D or C14-G2-dimer

<220>
 <221> MISC_FEATURE
 <222> (1)..(1)
 <223> linked to a lipid group: C13H23-CONH-

<220>
 <221> MISC_FEATURE
 <222> (1)..(8)
 <223> repeated twice to form a dimer, linked by lysine residue at position 9

<400> 42

Arg Gly Arg Lys Gly Gly Arg Arg Lys Lys
 1 5 10

<210> 43
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> C16-G2D or C16-G2-dimer

<220>
 <221> MISC_FEATURE
 <222> (1)..(1)
 <223> linked to a lipid group: C15H31-CO-NH-

<220>
 <221> MISC_FEATURE
 <222> (1)..(8)
 <223> repeated twice to form a dimer, linked by lysine residue at position 9

<400> 43

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Arg Gly Arg Lys Gly Gly Arg Arg Lys Lys
1 5 10

<210> 44
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> artificial peptide

<220>
<221> MISC_FEATURE
<222> (1)..(8)
<223> repeated twice to form a dimer, linked by lysine residue at position 9

<400> 44

Arg Ala Arg Lys Gly Gly Arg Arg Lys Lys
1 5 10

<210> 45
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> artificial peptide

<220>
<221> MISC_FEATURE
<222> (1)..(7)
<223> repeated twice to form a dimer, linked by lysine residue at position 8

<400> 45

Arg Ala Arg Lys Gly Arg Arg Lys Lys
1 5

<210> 46
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> artificial peptide

<220>
<221> MISC_FEATURE
<222> (1)..(7)
<223> repeated twice to form a dimer, linked by lysine residue at position 8

<400> 46

Arg Ala Arg Lys Ala Arg Arg Lys Lys
1 5

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<210> 47
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> V2D or V2 dimer or B2088

<220>
<221> MISC_FEATURE
<222> (1)..(8)
<223> repeated twice to form a dimer, linked by lysine residue at position 9

<400> 47

Arg Gly Arg Lys Val Val Arg Arg Lys Lys
1 5 10