SEQUENCE LISTING

<110> DiMarchi, et al.

<120> METHODS FOR TREATING METABOLIC DISORDERS AND OBESITY WITH GIP AND GLP-1 RECEPTOR-ACTIVE GLUCAGON-BASED PEPTIDES

<130> 31135/45708A

<150> 61/500,229
<151> 2011-06-23

<150> 61/426,338
<151> 2010-12-22

<160> 413

<170> PatentIn version 3.5

<210> 1
<211> 29
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<223> Wild type glucagon

<400> 1

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

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

<210> 2
<211> 31
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (1)..(31)
<223> GLP-1(7-37)

<400> 2

His Ala Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly
1 5 10 15

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

<210> 3
<211> 30
<212> PRT

<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<222> (1)..(30)
<223> GLP-1(7-36) amidated

<220>
<221> MISC_FEATURE
<222> (30)..(30)
<223> C-terminal amidation

<400> 3

```
His Ala Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly
1               5                   10                  15

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

<210> 4
<211> 42
<212> PRT
<213> Homo sapiens

<220>
<221> mat_peptide
<222> (1)..(42)
<223> gastric inhibitory polypeptide

<400> 4

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

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

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

<210> 5
<211> 29
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 61

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20.

<400> 5

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

Ile His Gln Lys Glu Phe Ile Ala Trp Leu Met Asn Thr
20 25

<210> 6
<211> 29
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 62

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20.

<400> 6

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

Ile His Gln Lys Glu Phe Ile Ala Trp Leu Met Asn Thr
20 25

<210> 7
<211> 29
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 63

<220>
<221> MISC_FEATURE
<222> (12)..(16)
<223> Lactam bridge between residues 12 and 16.

<400> 7

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

Ile His Gln Lys Glu Phe Ile Ala Trp Leu Met Asn Thr
20 25

<210> 8
<211> 29
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 66

<400> 8

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

Ile His Gln Lys Glu Phe Ile Ala Trp Leu Leu Ala Gln
20 25

<210> 9
<211> 29
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 68

<400> 9

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

Ile His Gln Glu Glu Phe Ile Ala Trp Leu Met Asn Thr
20 25

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

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 69

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<400> 10

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

Ile His Gln Glu Glu Phe Ile Ala Trp Leu Met Asn Thr
20 25

<210> 11
<211> 29
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 84

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<400> 11

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

Ile His Gln Lys Glu Phe Ile Cys Trp Leu Leu Ala Gln
20 25

<210> 12
<211> 29
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 85

<220>
<221> MISC_FEATURE

<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<220>
<221> MISC_FEATURE
<222> (24)..(24)
<223> PEG (20kDa) covalently attached to Cysteine

<400> 12

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

Ile His Gln Lys Glu Phe Ile Cys Trp Leu Leu Ala Gln
20 25

<210> 13
<211> 29
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 92

<400> 13

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

Lys His Gln Lys Glu Phe Ile Ala Trp Leu Leu Ala Gln
20 25

<210> 14
<211> 29
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 93

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<220>
<221> MISC_FEATURE
<222> (17)..(21)
<223> Lactam bridge between residues 17 and 21

<400> 14

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

Lys His Gln Lys Glu Phe Ile Ala Trp Leu Leu Ala Gln
20 25

<210> 15
<211> 29
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 95

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<400> 15

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

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

<210> 16
<211> 29
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 96

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<400> 16

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

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

<210> 17
<211> 29
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 97

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<400> 17

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

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

<210> 18
<211> 29
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 98

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<400> 18

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

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

<210> 19
<211> 42
<212> PRT

<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 99

<400> 19

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

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

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

<210> 20
<211> 42
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 100

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<400> 20

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

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

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

<210> 21
<211> 42
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 101

<400> 21

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

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

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

<210> 22
<211> 42
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 102

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<400> 22

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

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

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

<210> 23
<211> 42
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE

<223> Analog 104

<400> 23

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

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

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

<210> 24
<211> 42
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 105

<220>
<221> MISC_FEATURE
<222> (24)..(24)
<223> PEG (40kDa) attached to Cysteine

<400> 24

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

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

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

<210> 25
<211> 29
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 106

<400> 25

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

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

<210> 26
<211> 29
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 107

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<400> 26

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

Ile His Gln Lys Glu Phe Ile Ala Trp Leu Met Asn Thr
20 25

<210> 27
<211> 29
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 108

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<400> 27

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

Ile His Gln Lys Glu Phe Ile Ala Trp Leu Met Asn Thr
20 25

<210> 28
<211> 29
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 109

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<400> 28

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

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

<210> 29
<211> 29
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 110

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<400> 29

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

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

<210> 30
<211> 29
<212> PRT
<213> Artificial sequence

<220>

<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 111

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<400> 30

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

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

<210> 31
<211> 24
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 113

<220>
<221> MOD_RES
<222> (1)..(1)
<223> Xaa is 3-phenyllactic acid

<220>
<221> MISC_FEATURE
<222> (11)..(15)
<223> Lactam bridge between residues 11 and 15

<400> 31

Xaa Ile Ser Asp Tyr Ser Ile Ala Met Asp Glu Ile His Gln Lys Asp
1 5 10 15

Phe Val Asn Trp Leu Leu Ala Gln
20

<210> 32
<211> 24
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 114

<220>
<221> MOD_RES
<222> (1)..(1)
<223> Xaa is 3-phenyllactic acid

<220>
<221> MISC_FEATURE
<222> (11)..(15)
<223> Lactam bridge between residues 11 and 15

<400> 32

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

Phe Val Asn Trp Leu Leu Ala Gln
20

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

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 115

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<400> 33

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

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

Ser Gly Ala Pro Pro Pro Ser
35

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

<220>

<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 116

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<400> 34

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 35
<211> 29
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 118

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<400> 35

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

Ile His Gln Lys Glu Phe Val Asn Trp Leu Leu Ala Gln
20 25

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

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 120

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<400> 36

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

Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Met Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 37
<211> 29
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 124

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<400> 37

His Ser Gln Gly Thr Phe Thr Ser Asp Tyr Ser Ile Tyr Met Asp Glu
1 5 10 15

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

<210> 38
<211> 29
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 125

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<400> 38

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

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

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

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 127

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<400> 39

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

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

Ser Gly Ala Pro Pro Pro Ser
        35

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

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 128

<220>
<221> MISC_FEATURE

<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<400> 40

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

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

Ser Gly Ala Pro Pro Pro Ser
35

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

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 129

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<400> 41

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

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

Ser Gly Ala Pro Pro Pro Ser
35

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

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 139

<220>

<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<400> 42

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

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

Ser Gly Ala Pro Pro Pro Ser
35

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

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 140

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<400> 43

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

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

Ser Gly Ala Pro Pro Pro Ser
35

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

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 141

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residuess 16 and 20

<400> 44

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

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

Ser Gly Ala Pro Pro Pro Ser
35

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

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 142

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<400> 45

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

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

Ser Gly Ala Pro Pro Pro Ser
35

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

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 143

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<400> 46

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

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

Ser Gly Ala Pro Pro Pro Ser
        35

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

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 144

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<400> 47

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

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

Ser Gly Ala Pro Pro Pro Ser
        35

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

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE

<223> Analog 145

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<400> 48

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 49
<211> 39
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 146

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<400> 49

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 50
<211> 39
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<220>

<221> MISC_FEATURE
<223> Analog 147

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<400> 50

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 51
<211> 39
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 148

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<400> 51

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 52
<211> 39
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 149

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<400> 52

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 53
<211> 39
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 150

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<400> 53

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 54
<211> 39
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 151

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<400> 54

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

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

Ser Gly Ala Pro Pro Pro Ser
        35

<210> 55
<211> 39
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 152

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<400> 55

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

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

Ser Gly Ala Pro Pro Pro Ser
        35

<210> 56
<211> 39

<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 154

<220>
<221> MOD_RES
<222> (1)..(1)
<223> Xaa is hippuric acid

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<400> 56

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 57
<211> 39
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 155

<220>
<221> MISC_FEATURE
<222> (12)..(16)
<223> Lactam bridge between residues 12 and 16

<400> 57

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 58
<211> 39
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 156

<220>
<221> MISC_FEATURE
<222> (20)..(24)
<223> Lactam bridge between residues 20 and 24

<400> 58

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

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

Ser Gly Ala Pro Pro Pro Ser
35

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

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 157

<220>
<221> MISC_FEATURE
<222> (24)..(28)
<223> Lactam bridge between residues 24 and 28

<400> 59

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

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

Ser Gly Ala Pro Pro Pro Ser
        35

<210> 60
<211> 39
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 158

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<400> 60

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

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

Ser Gly Ala Pro Pro Pro Ser
        35

<210> 61
<211> 39
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 162

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (16)..(20)

<223> Lactam bridge between residues 16 and 20

<400> 61

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 62
<211> 29
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 163

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<400> 62

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

Gln Ala Ala Lys Glu Phe Val Asn Trp Leu Leu Ala Gly
20 25

<210> 63
<211> 29
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 164

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>

<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<400> 63

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

Gln Ala Ala Lys Glu Phe Val Asn Trp Leu Leu Ala Gly
20 25

<210> 64
<211> 40
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 165

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<400> 64

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

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

Ser Gly Ala Pro Pro Pro Ser Cys
35 40

<210> 65
<211> 40
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 166

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is d-alanine

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<400> 65

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

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

Ser Gly Ala Pro Pro Pro Ser Cys
35 40

<210> 66
<211> 39
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 167

<220>
<221> MISC_FEATURE
<222> (17)..(20)
<223> Lactam bridge between residues 17 and 20

<400> 66

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 67
<211> 39
<212> PRT
<213> Artificial sequence

<220>

<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 168

<220>
<221> MISC_FEATURE
<222> (18)..(21)
<223> Lactam bridge between residues 18 and 21

<400> 67

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 68
<211> 29
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 169

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<400> 68

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

Gln Ala Ala Lys Glu Phe Val Cys Trp Leu Leu Ala Gly
20 25

<210> 69
<211> 40
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 170

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> PEG (40kDa) covalently attached to Cysteine

<400> 69

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

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

Ser Gly Ala Pro Pro Pro Ser Cys
35 40

<210> 70
<211> 29
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 172

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<220>
<221> MISC_FEATURE

<222> (24)..(24)
<223> PEG (40kDa) covalently attached to Cysteine

<400> 70

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

Gln Ala Ala Lys Glu Phe Val Cys Trp Leu Leu Ala Gly
20 25

<210> 71
<211> 40
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 174

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<400> 71

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

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

Ser Gly Ala Pro Pro Pro Ser Cys
35 40

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

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 175

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<220>
<221> MISC_FEATURE
<222> (24)..(24)
<223> PEG (40kDa) covalently attached to Cysteine

<400> 72

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 73
<211> 40
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 176

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<400> 73

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

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

Ser Gly Ala Pro Pro Pro Ser Cys

35 40

<210> 74
<211> 29
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 177

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<400> 74

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

Gln Ala Ala Lys Glu Phe Val Cys Trp Leu Leu Ala Gly
20 25

<210> 75
<211> 40
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 178

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> PEG (40kDa) covalently attached to Cysteine

<400> 75

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

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

Ser Gly Ala Pro Pro Pro Ser Cys
35 40

<210> 76
<211> 29
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 179

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<220>
<221> MISC_FEATURE
<222> (24)..(24)
<223> PEG (40kDa) covalently attached to Cysteine

<400> 76

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

Gln Ala Ala Lys Glu Phe Val Cys Trp Leu Leu Ala Gly
20 25

<210> 77
<211> 40
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<220>

<221> MISC_FEATURE
<223> Analog 182

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> PEG (40kDa) covalently attached to Cysteine

<400> 77

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

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

Ser Gly Ala Pro Pro Pro Ser Cys
35 40

<210> 78
<211> 29
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 186

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<220>
<221> MISC_FEATURE
<222> (24)..(24)
<223> PEG (40kDa) covalently attached to Cysteine

<400> 78

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

1 5 10 15

Gln Ala Ala Lys Glu Phe Val Cys Trp Leu Met Asn Gly
20 25

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

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 191

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<400> 79

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 80
<211> 34
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 192

<400> 80

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

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

Pro Ser

<210> 81
<211> 38
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 194

<220>
<221> MOD_RES
<222> (1)..(1)
<223> Xaa is Aib

<400> 81

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

Ala Val Arg Leu Phe Val Asn Trp Leu Leu Ala Gly Gly Pro Ser Ser
20 25 30

Gly Ala Pro Pro Pro Ser
35

<210> 82
<211> 26
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 197

<220>
<221> MISC_FEATURE
<222> (13)..(17)
<223> Lactam bridge between residues 13 and 17

<400> 82

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

Lys Glu Phe Val Asn Trp Leu Leu Ala Gly
20 25

<210> 83
<211> 28
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 198

<220>
<221> MOD_RES
<222> (1)..(1)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (15)..(19)
<223> Lactam bridge between residues 15 and 19

<400> 83

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

Ala Ala Lys Glu Phe Val Asn Trp Leu Leu Ala Gly
20 25

<210> 84
<211> 40
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 199

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<400> 84

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

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

20 25 30

Ser Gly Ala Pro Pro Pro Ser Cys
35 40

<210> 85
<211> 40
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 200

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<220>
<221> MOD_RES
<222> (27)..(27)
<223> Xaa is Nle

<400> 85

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

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

Ser Gly Ala Pro Pro Pro Ser Cys
35 40

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

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 201

<220>

<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<400> 86

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

Glu Ala Val Arg Leu Phe Val Asn Trp Leu Leu Ala Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 87
<211> 40
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 202

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> PEG (40kDa) covalently attached to Cysteine

<400> 87

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

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

Ser Gly Ala Pro Pro Pro Ser Cys
35 40

<210> 88
<211> 40
<212> PRT

<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 203

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<220>
<221> MOD_RES
<222> (27)..(27)
<223> Xaa is Nle

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> PEG (40kDa) covalently attached to Cysteine

<400> 88

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

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

Ser Gly Ala Pro Pro Pro Ser Cys
35 40

<210> 89
<211> 40
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 204

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>

<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<400> 89

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

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

Ser Gly Ala Pro Pro Pro Ser Cys
35 40

<210> 90
<211> 40
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 205

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> PEG (40kDa) covalently attached to Cysteine

<400> 90

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

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

Ser Gly Ala Pro Pro Pro Ser Cys
35 40

<210> 91
<211> 43
<212> PRT

<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 206

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<400> 91

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

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

Lys Asn Trp Leu Lys His Asn Ile Thr Gln Cys
35 40

<210> 92
<211> 43
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 207

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<400> 92

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

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

Lys Asn Trp Leu Lys His Asn Ile Thr Gln Cys
35 40

<210> 93
<211> 43
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 208

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<220>
<221> MISC_FEATURE
<222> (43)..(43)
<223> PEG (40kDa) covalently attached to Cysteine

<400> 93

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

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

Lys Asn Trp Leu Lys His Asn Ile Thr Gln Cys
35 40

<210> 94
<211> 40
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Analog 209

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (9)..(12)
<223> Lactam bridge between residues 9 and 12

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<400> 94

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

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

Ser Gly Ala Pro Pro Pro Ser Cys
35 40

<210> 95
<211> 10
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> CEX

<400> 95

Gly Pro Ser Ser Gly Ala Pro Pro Pro Ser
1 5 10

<210> 96
<211> 11
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> Xaa is any amino acid

<400> 96

Xaa Gly Pro Ser Ser Gly Ala Pro Pro Pro Ser
1 5 10

<210> 97
<211> 8
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<400> 97

Lys Arg Asn Arg Asn Asn Ile Ala
1 5

<210> 98
<211> 4
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<400> 98

Lys Arg Asn Arg
1

<210> 99
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> mt-274

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> PEG (40kDa) covalently attached to Cysteine

<220>
<221> MISC_FEATURE

<222> (40)..(40)
<223> C-terminal amidation

<400> 99

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

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

Ser Gly Ala Pro Pro Pro Ser Cys
35 40

<210> 100
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> mt-311

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (24)..(24)
<223> PEG (40kDa) covalently attached to Cysteine

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 100

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

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

Ser Gly Ala Pro Pro Pro Ser Lys
35 40

<210> 101
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> mt-298

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (24)..(24)
<223> PEG (40kDa) covalently attached to Cysteine

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> 16 Carbon fatty acyl group covalently attached to Lysine

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 101

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

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

Ser Gly Ala Pro Pro Pro Ser Lys
35 40

<210> 102
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>

<221> MISC_FEATURE
<223> mt-309

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (24)..(24)
<223> PEG (40kDa) covalently attached to Cysteine

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> 14 Carbon fatty acyl group covalently attached Lysine

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 102

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

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

Ser Gly Ala Pro Pro Pro Ser Lys
35 40

<210> 103
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> mt-310

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)

<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (24)..(24)
<223> PEG (40kDa) covalently attached to Cysteine

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> 18 Carbon fatty acyl group covalently attached to Lysine

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 103

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

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

Ser Gly Ala Pro Pro Pro Ser Lys
35 40

<210> 104
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> mt-260

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> 14 Carbon fatty acyl group covalently attached to Lysine

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 104

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

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

Ser Gly Ala Pro Pro Pro Ser Lys
35 40

<210> 105
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> mt-261

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> 16 Carbon fatty acyl group covalently attached Lysine

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 105

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

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

Ser Gly Ala Pro Pro Pro Ser Lys
35 40

<210> 106

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

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> mt-262

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> 18 Carbon fatty acyl group covalently attached to Lysine

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 106

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

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

Ser Gly Ala Pro Pro Pro Ser Lys
35 40

<210> 107
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> mt-252

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 107

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

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

Ser Gly Ala Pro Pro Pro Ser Cys
35 40

<210> 108
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> mt-255

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> PEG (40kDa) attached to Cysteine

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 108

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

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

Ser Gly Ala Pro Pro Pro Ser Cys
35 40

<210> 109
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> mt-256

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 109

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

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

Ser Gly Ala Pro Pro Pro Ser Cys
35 40

<210> 110
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> mt-257

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (29)..(29)
<223> C-terminal amidation

<400> 110

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

Gln Ala Ala Xaa Glu Phe Val Cys Trp Leu Leu Ala Gly
20 25

<210> 111
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> mt-263

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 111

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

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

Ser Gly Ala Pro Pro Pro Ser Lys
        35   40

<210> 112
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> mt-264

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

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

<400> 112

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

Gln Ala Ala Xaa Glu Phe Val Asn Trp Leu Leu Ala Gly
            20   25

<210> 113
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> mt-265

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE

<222> (24)..(24)
<223> 14 Carbon fatty acyl group covalently attached to Lysine

<220>
<221> MISC_FEATURE
<222> (39)..(39)
<223> C-terminal amidation

<400> 113

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 114
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> mt-266

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (24)..(24)
<223> 16 Carbon fatty acyl group covalently attached to Lysine

<220>
<221> MISC_FEATURE
<222> (39)..(39)
<223> C-terminal amidation

<400> 114

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 115
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> mt-267

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (24)..(24)
<223> 18 Carbon fatty acyl group covalently attached to Lysine

<220>
<221> MISC_FEATURE
<222> (39)..(39)
<223> C-terminal amidation

<400> 115

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 116
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>

<221> MISC_FEATURE
<223> mt-268

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (39)..(39)
<223> C-terminal amidation

<400> 116

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

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

Ser Gly Ala Pro Pro Pro Ser
35

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

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> mt-269

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> 14 Carbon fatty acyl group covalently attached to Lysine

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

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

<223> C-terminal amidation

<400> 117

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

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

Ser Gly Ala Pro Pro Pro Ser
35

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

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> mt-270

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> 16 Carbon fatty acyl group covalently attached to Lysine

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (39)..(39)
<223> C-terminal amidation

<400> 118

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 119
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> mt-271

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> 18 Carbon fatty acyl group covalently attached to Lysine

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (39)..(39)
<223> C-terminal amidation

<400> 119

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 120
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> mt-272

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

<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (39)..(39)
<223> C-terminal amidation

<400> 120

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 121
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> mt-275

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (16)..(16)
<223> Xaa is Orn

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 121

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

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

Ser Gly Ala Pro Pro Pro Ser Cys
35 40

<210> 122
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> mt-276

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (16)..(16)
<223> Xaa is 2,4-diaminobutyric acid

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 122

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

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

Ser Gly Ala Pro Pro Pro Ser Cys
35 40

<210> 123
<211> 40
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> mt-277

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> 14 Carbon fatty acyl group covalentaly attached to Lysine

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 123

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

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

Ser Gly Ala Pro Pro Pro Ser Lys
35 40

<210> 124
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> mt-278

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> 16 Carbon fatty acyl group covalently attached to Lysine

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 124

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

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

Ser Gly Ala Pro Pro Pro Ser Lys
35 40

<210> 125
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> mt-279

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> 18 Carbon fatty acyl group covalently attached to Lysine

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 125

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

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

Ser Gly Ala Pro Pro Pro Ser Lys
35 40

<210> 126
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> mt-280

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 126

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

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

Ser Gly Ala Pro Pro Pro Ser Lys
35 40

<210> 127
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> mt-281

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (24)..(24)
<223> PEG (40kDa) covalently attached to Cysteine

<220>
<221> MISC_FEATURE
<222> (29)..(29)
<223> C-terminal amidation

<400> 127

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

Gln Ala Ala Xaa Glu Phe Val Cys Trp Leu Leu Ala Gly
20 25

<210> 128
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> mt-282

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> 14 Carbon fatty acyl group covalently attached to Lysine

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (29)..(29)
<223> C-terminal amidation

<400> 128

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

Gln Ala Ala Xaa Glu Phe Val Asn Trp Leu Leu Ala Gly
20 25

<210> 129
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> mt-283

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> 16 Carbon fatty acyl group covalently attached to Lysine

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (29)..(29)
<223> C-terminal amidation

<400> 129

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

Gln Ala Ala Xaa Glu Phe Val Asn Trp Leu Leu Ala Gly
20 25

<210> 130
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> mt-284

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> 18 Carbon fatty acyl group covalently attached to Lysine

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (29)..(29)
<223> C-terminal amidation

<400> 130

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

Gln Ala Ala Xaa Glu Phe Val Asn Trp Leu Leu Ala Gly
20 25

<210> 131
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> mt-285

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (29)..(29)
<223> C-terminal amidation

<400> 131

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

Gln Ala Ala Xaa Glu Phe Val Asn Trp Leu Leu Ala Gly
20 25

<210> 132
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> mt-286

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> 14 Carbon fatty acyl group covalently attached to Lysine

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 132

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

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

Ser Gly Ala Pro Pro Pro Ser Lys
35 40

<210> 133
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> mt-287

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> 16 Carbon fatty acyl group covalently attached to Lysine

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 133

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

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

Ser Gly Ala Pro Pro Pro Ser Lys
35 40

<210> 134
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> mt-288

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> 18 Carbon fatty acyl group covalently attached to Lysine

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 134

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

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

Ser Gly Ala Pro Pro Pro Ser Lys
35 40

<210> 135
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> mt-289

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 135

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

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

Ser Gly Ala Pro Pro Pro Ser Lys

35 40

<210> 136
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> mt-290

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (24)..(24)
<223> PEG (40kDa) covalently attached to Cysteine

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> 14 Carbon fatty acyl group covalently attached to Lysine

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 136

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

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

Ser Gly Ala Pro Pro Pro Ser Lys
35 40

<210> 137
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> mt-291

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (24)..(24)
<223> PEG (40kDa) covalently attached to Cysteine

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> 16 Carbon fatty acyl group covalently attached to Lysine

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 137

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

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

Ser Gly Ala Pro Pro Pro Ser Lys
35 40

<210> 138
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> mt-292

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>

<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (24)..(24)
<223> PEG (40kDa) covalently attached to Cysteine

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> 18 Carbon fatty acyl group covalently attached to Lysine

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 138

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

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

Ser Gly Ala Pro Pro Pro Ser Lys
35 40

<210> 139
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> mt-293

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (24)..(24)
<223> PEG (40kDa) covalently attached to Cysteine

<220>
<221> MISC_FEATURE

<222> (40)..(40)
<223> C-terminal amidation

<400> 139

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

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

Ser Gly Ala Pro Pro Pro Ser Lys
35 40

<210> 140
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> mt-295

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> PEG (40kDa) covalently attached to Cysteine

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 140

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

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

Ser Gly Ala Pro Pro Pro Ser Cys
35 40

<210> 141
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> mt-296

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> 16 Carbon fatty acyl group covalently attached to Lysine

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 141

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

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

Ser Gly Ala Pro Pro Pro Ser Lys
35 40

<210> 142
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> mt-297

<220>
<221> MOD_RES

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

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> 16 Carbon fatty acyl group covalently attached to Lysine

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 142

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

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

Ser Gly Ala Pro Pro Pro Ser Lys
35 40

<210> 143
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> mt-299

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (24)..(24)
<223> PEG (40kDa) covalently attached to Cysteine

<220>
<221> MISC_FEATURE
<222> (40)..(40)

<223> 16 Carbon fatty acyl group covalently attached to Lysine

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 143

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

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

Ser Gly Ala Pro Pro Pro Ser Lys
35 40

<210> 144
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> mt-306

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> 14 Carbon fatty acyl group covalently attached to Lysine

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 144

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

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

Ser Gly Ala Pro Pro Pro Ser Lys
        35   40

<210> 145
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> mt-307

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> 18 Carbon fatty acyl group covalently attached to Lysine

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 145

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

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

Ser Gly Ala Pro Pro Pro Ser Lys
        35   40

<210> 146
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE

<223> mt-308

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 146

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

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

Ser Gly Ala Pro Pro Pro Ser Lys
35 40

<210> 147
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> mt-322

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> 3-SH-propionic acyl group covalently attached to Lysine

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 147

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

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

Ser Gly Ala Pro Pro Pro Ser Lys
35 40

<210> 148
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> mt-323

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> 8 Carbon fatty acyl group covalently attached to Lysine

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 148

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

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

Ser Gly Ala Pro Pro Pro Ser Lys
35 40

<210> 149

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

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> mt-324

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 149

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

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

Ser Gly Ala Pro Pro Pro Ser Cys
35 40

<210> 150
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> mt-325

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (7)..(7)
<223> Xaa is 2-aminobutyric acid

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 150

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

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

Ser Gly Ala Pro Pro Pro Ser Cys
35 40

<210> 151
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> mt-329

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> 8 Carbon fatty acyl group covalently attached to Lysine

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 151

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

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

Ser Gly Ala Pro Pro Pro Ser Lys
35 40

<210> 152
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> mt-330

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> 8 Carbon fatty acyl group covalently attached to Lysine

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 152

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

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

Ser Gly Ala Pro Pro Pro Ser Lys
35 40

<210> 153
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> mt-331

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (24)..(24)
<223> PEG (40kDa) covalently attached to Cysteine

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 153

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

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

Ser Gly Ala Pro Pro Pro Ser Lys
35 40

<210> 154
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> mt-333

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (40)..(40)
<223> Xaa is d-Lysine

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> 14 Carbon fatty acyl group covalently attached to d-Lysine

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 154

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

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

Ser Gly Ala Pro Pro Pro Ser Xaa
35 40

<210> 155
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> mt-334

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (40)..(40)
<223> Xaa is d-Lysine

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 155

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

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

Ser Gly Ala Pro Pro Pro Ser Xaa
35 40

<210> 156
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> mt-335

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (24)..(24)
<223> PEG (40kDa) covalently attached to Cysteine

<220>
<221> MOD_RES
<222> (40)..(40)
<223> Xaa is d-Lysine

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> 14 Carbon fatty acyl group covalently attached to Lysine

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 156

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

Gln Ala Ala Xaa Glu Phe Val Cys Trp Leu Leu Ala Gly Gly Pro Ser

20 25 30

Ser Gly Ala Pro Pro Pro Ser Xaa
35 40

<210> 157
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> mt-336

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (24)..(24)
<223> PEG (40kDa) covalently attached to Cysteine

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> Xaa is d-Lysine

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 157

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

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

Ser Gly Ala Pro Pro Pro Ser Xaa
35 40

<210> 158
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> mt-337

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> 14 Carbon fatty acyl group covalently attached to Lysine

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 158

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 159
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> mt-338

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES

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

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 159

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 160
<211> 41
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> mt-339

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> 14 Carbon fatty acyl group covalently attached to Lysine

<220>
<221> MISC_FEATURE
<222> (41)..(41)
<223> C-terminal amidation

<400> 160

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

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

Ser Gly Ala Pro Pro Pro Ser Lys Cys
35 40

<210> 161
<211> 41
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> mt-340

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (41)..(41)
<223> C-terminal amidation

<400> 161

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

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

Ser Gly Ala Pro Pro Pro Ser Lys Cys
35 40

<210> 162
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> mt-341

<220>
<221> MOD_RES

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

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> 14 Carbon fatty acyl group covalently attached to Lysine

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (24)..(24)
<223> PEG (40kDa) covalently attached to Cysteine

<220>
<221> MISC_FEATURE
<222> (39)..(39)
<223> C-terminal amidation

<400> 162

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 163
<211> 41
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> mt-343

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (40)..(40)

<223> 14 Carbon fatty acyl group covalently attached to Lysine

<220>
<221> MISC_FEATURE
<222> (41)..(41)
<223> PEG (40kDa) covalently attached to Cysteine

<220>
<221> MISC_FEATURE
<222> (41)..(41)
<223> C-terminal amidation

<400> 163

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

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

Ser Gly Ala Pro Pro Pro Ser Lys Cys
35 40

<210> 164
<211> 41
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> mt-344

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (41)..(41)
<223> PEG (40kDa) covalently attached to Cysteine

<220>
<221> MISC_FEATURE
<222> (41)..(41)
<223> C-terminal amidation

<400> 164

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

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

Ser Gly Ala Pro Pro Pro Ser Lys Cys
35 40

<210> 165
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> mt-345

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> 14 Carbon fatty acyl group covalently attached to Lysine

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 165

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

Gln Ala Ala Lys Glu Phe Ile Cys Trp Leu Met Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser Lys
35 40

<210> 166
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE

<223> mt-353

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (24)..(24)
<223> PEG (40kDa) covalently attached to Cysteine

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> 14 Carbon fatty acyl group covalently attached to Lysine

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 166

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

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

Ser Gly Ala Pro Pro Pro Ser Lys
35 40

<210> 167
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> mt-241

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (16)..(16)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 167

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

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

Ser Gly Ala Pro Pro Pro Ser Cys
35 40

<210> 168
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> mt-242

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (16)..(16)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 168

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

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

Ser Gly Ala Pro Pro Pro Ser Cys
35 40

<210> 169

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

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> mt-273

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (12)..(16)
<223> Lactam bridge between residues 12 and 16

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (40)..(40)
<223> C-terminal amidation

<400> 169

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

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

Ser Gly Ala Pro Pro Pro Ser Cys
35 40

<210> 170
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 170

Gly Pro Ser Ser Gly Ala Pro Pro Pro Lys
1 5 10

<210> 171
<211> 11
<212> PRT

<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MOD_RES
<222> (1)..(1)
<223> Xaa is Gly or a small, aliphatic or non-polar or slightly polar amino acid

<400> 171

Xaa Gly Pro Ser Ser Gly Ala Pro Pro Pro Lys
1 5 10

<210> 172
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MOD_RES
<222> (1)..(1)
<223> Xaa is Gly or a small, aliphatic or non-polar or slightly polar amino acid

<400> 172

Xaa Gly Pro Ser Ser Gly Ala Pro Pro Pro Ser Lys
1 5 10

<210> 173
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synethic polypeptide

<220>
<221> MISC_FEATURE
<223> mt-248

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (16)..(16)
<223> Xaa is Aib

<220>

<221> MISC_FEATURE
<222> (40)..(40)
<223> PEG (40kDa) covalently attached to Cysteine

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 173

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

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

Ser Gly Ala Pro Pro Pro Ser Cys
35 40

<210> 174
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> mt-249

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (16)..(16)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> PEG (40kDa) covalently attached to Cysteine

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 174

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

Gln Ala Ala Gln Glu Phe Val Asn Trp Leu Leu Ala Gly Gly Pro Ser

20 25 30

Ser Gly Ala Pro Pro Pro Ser Cys
35 40

<210> 175
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> mt-250

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (16)..(16)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 175

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

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

Ser Gly Ala Pro Pro Pro Ser Cys
35 40

<210> 176
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> mt-251

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 176

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

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

Ser Gly Ala Pro Pro Pro Ser Cys
35 40

<210> 177
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> mt-258

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (29)..(29)
<223> C-terminal amidation

<400> 177

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

Gln Ala Ala Xaa Glu Phe Val Cys Trp Leu Leu Ala Gly
20 25

<210> 178
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> mt-259

<220>
<221> MISC_FEATURE
<223> C-terminal amidation

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<400> 178

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

Gln Ala Ala Xaa Glu Phe Val Cys Trp Leu Leu Ala Gly
20 25

<210> 179
<211> 30
<212> PRT
<213> Artificial Sequene

<220>
<223> Synthetic polypeptide

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (24)..(24)
<223> PEG (40kDa) covalently attached to Cysteine

<400> 179

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

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

<210> 180
<211> 42
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> SEQ ID NO: 24

<220>
<221> MISC_FEATURE
<222> (24)..(24)
<223> Substituted amino acid covalently linked to hydrophilic group

<400> 180

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

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

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

<210> 181
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> SEQ ID NO: 69

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE

<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> Substituted amino acid covalentaly linked to hydrophilic group

<400> 181

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

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

Ser Gly Ala Pro Pro Pro Ser Xaa
35 40

<210> 182
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> SEQ ID NO: 70

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<220>
<221> MISC_FEATURE
<222> (24)..(24)
<223> Substituted amino acid covalently linked to hydrophilic group

<220>
<221> misc_feature
<222> (29)..(29)
<223> Xaa can be any naturally occurring amino acid

<400> 182

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

Gln Ala Ala Lys Glu Phe Val Xaa Trp Leu Leu Ala Xaa
20 25

<210> 183
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> SEQ ID NO: 72

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<220>
<221> MISC_FEATURE
<222> (24)..(24)
<223> Substituted amino acid covalently linked to hydrophilic group

<400> 183

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 184
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> SEQ ID NO: 75

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>

<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> Substituted amino acid covalently linked to hydrophilic group

<400> 184

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

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

Ser Gly Ala Pro Pro Pro Ser Xaa
35 40

<210> 185
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Sythetic polypeptide

<220>
<221> MISC_FEATURE
<223> SEQ ID NO: 76

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<220>
<221> MISC_FEATURE
<222> (24)..(24)
<223> Substituted amino acid covalently linked to hydrophilic group

<400> 185

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

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

<210> 186
<211> 40

<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> SEQ ID NO: 77

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> Substituted amino acid covalently linked to hydrophilic group

<400> 186

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

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

Ser Gly Ala Pro Pro Pro Ser Xaa
35 40

<210> 187
<211> 29
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> SEQ ID NO: 78

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<220>
<221> MISC_FEATURE
<222> (24)..(24)
<223> Substituted amino acid covalently linked to hydrophilic group

<400> 187

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

Gln Ala Ala Lys Glu Phe Val Xaa Trp Leu Met Asn Gly
20 25

<210> 188
<211> 40
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> SEQ ID NO: 87

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> Substitute amino acid covalently linked to hydrophilic group

<400> 188

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

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

Ser Gly Ala Pro Pro Pro Ser Xaa
35 40

<210> 189
<211> 40
<212> PRT
<213> Artificial sequence

<220>

<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> SEQ ID NO: 88

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<220>
<221> MOD_RES
<222> (27)..(27)
<223> Xaa is Nle

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> Substituted amino acid covalently linked to hydrophilic group

<400> 189

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

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

Ser Gly Ala Pro Pro Pro Ser Xaa
35 40

<210> 190
<211> 40
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> SEQ ID NO: 90

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> Substituted amino acid covalently linked to hydrophilic group

<400> 190

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

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

Ser Gly Ala Pro Pro Pro Ser Xaa
35 40

<210> 191
<211> 43
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> SEQ ID NO: 93

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<220>
<221> MISC_FEATURE
<222> (43)..(43)
<223> Substituted amino acid covalently linked to hydrophilic group

<400> 191

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

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

Lys Asn Trp Leu Lys His Asn Ile Thr Gln Xaa
35 40

<210> 192

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

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> SEQ ID NO: 99

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> Substituted amino acid covalently linked to hydrophilic group

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 192

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

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

Ser Gly Ala Pro Pro Pro Ser Xaa
35 40

<210> 193
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> SEQ ID NO: 100

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (24)..(24)
<223> Substituted amino acid covalently linked to hydrophilic group

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 193

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

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

Ser Gly Ala Pro Pro Pro Ser Lys
35 40

<210> 194
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> SEQ ID NO: 101, 102, 103

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (24)..(24)
<223> Substituted amino acid covalently linked to hydrophilic group

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> Substitute amino acid covalently linked to an acyl or alkyl group

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 194

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

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

Ser Gly Ala Pro Pro Pro Ser Xaa
35 40

<210> 195
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> SEQ ID NO: 104, 105, 106

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> Substituted amino acid covalently linked to an acyl or alkyl group

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 195

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

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

Ser Gly Ala Pro Pro Pro Ser Xaa
35 40

<210> 196
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> SEQ ID NO: 108

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> Substituted amino acid covalently linked to hydrophilic group

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 196

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

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

Ser Gly Ala Pro Pro Pro Ser Xaa
35 40

<210> 197
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> SEQ ID NO: 113, 114, 115

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (24)..(24)
<223> Substituted amino acid covalently linked to acyl or alkyl group

<220>
<221> MISC_FEATURE
<222> (39)..(39)
<223> C-terminal amidation

<400> 197

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 198
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> SEQ ID NO: 117, 118, 119

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Substituted amino acid covalently linked to acyl or alkyl group

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (39)..(39)
<223> C-terminal amidation

<400> 198

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 199
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> SEQ ID NO: 123, 124, 125

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> Substituted amino acid covalently linked to acyl or alkyl group

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 199

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

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

Ser Gly Ala Pro Pro Pro Ser Xaa

35 40

<210> 200
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> SEQ ID NO: 127

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (24)..(24)
<223> Substituted amino acid covalently linked to hydrophilic group

<220>
<221> MISC_FEATURE
<222> (29)..(29)
<223> C-terminal amidation

<400> 200

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

Gln Ala Ala Xaa Glu Phe Val Xaa Trp Leu Leu Ala Gly
20 25

<210> 201
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> SEQ ID NO: 128, 129, 130

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Substituted amino acid covalently linked to acyl or alkyl group

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (29)..(29)
<223> C-terminal amidation

<400> 201

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

Gln Ala Ala Xaa Glu Phe Val Asn Trp Leu Leu Ala Gly
20 25

<210> 202
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> SEQ ID NO: 132

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> Substituted amino acid covalently linked acyl or alkyl group

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 202

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

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

Ser Gly Ala Pro Pro Pro Ser Xaa
35 40

<210> 203
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> SEQ ID NO: 136, 137, 138

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (24)..(24)
<223> Substituted amino acid covalently linked to hydrophilic group

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> Substituted amino acid covalently linked to acyl or alkyl group

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 203

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

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

Ser Gly Ala Pro Pro Pro Ser Xaa
35 40

<210> 204

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

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> SEQ ID NO: 139

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (24)..(24)
<223> Substituted amino acid covalently linked to hydrophilic group

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 204

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

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

Ser Gly Ala Pro Pro Pro Ser Lys
35 40

<210> 205
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> SEQ ID NO: 140

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> Substituted amino acid covalently linked to hydrophilic group

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 205

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

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

Ser Gly Ala Pro Pro Pro Ser Xaa
35 40

<210> 206
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> SEQ ID NO: 141

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> Substituted amino acid covalently linked to acyl or alkyl group

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 206

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

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

Ser Gly Ala Pro Pro Pro Ser Xaa
35 40

<210> 207
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> SEQ ID NO: 142

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> Substituted amino acid covalently linked to acyl or alkyl group

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 207

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

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

Ser Gly Ala Pro Pro Pro Ser Xaa
35 40

<210> 208
<211> 40

<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> SEQ ID NO: 143

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (24)..(24)
<223> Substituted amino acid covalently linked to hydrophilic group

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> Substituted amino acid covalently linked to acyl or alkyl group

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 208

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

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

Ser Gly Ala Pro Pro Pro Ser Xaa
35 40

<210> 209
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> SEQ ID NO: 144, 145

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> Substituted amino acid covalently linked to acyl or alkyl group

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 209

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

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

Ser Gly Ala Pro Pro Pro Ser Xaa
35 40

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

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> SEQ ID NO: 148

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> Substituted amino acid covalently linked to acyl or alkyl group

<220>

<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 210

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

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

Ser Gly Ala Pro Pro Pro Ser Xaa
35 40

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

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> SEQ ID NO: 152

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> Substituted amino acid covalently linked to acyl or alkyl group

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 211

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

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

Ser Gly Ala Pro Pro Pro Ser Xaa
35 40

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

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> SEQ ID NO: 152

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> Substituted amino acid covalently linked to acyl or alkyl group

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 212

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

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

Ser Gly Ala Pro Pro Pro Ser Xaa
35 40

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

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> SEQ ID NO: 153

<220>

<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (24)..(24)
<223> Substituted amino acid covalently linked to hydrophilic group

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 213

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

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

Ser Gly Ala Pro Pro Pro Ser Lys
35 40

<210> 214
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> SEQ ID NO: 154

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> Substituted amino acid covalently linked to acyl or alkyl group

<220>
<221> MISC_FEATURE

<222> (40)..(40)
<223> C-terminal amidation

<400> 214

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

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

Ser Gly Ala Pro Pro Pro Ser Xaa
35 40

<210> 215
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> SEQ ID NO: 156

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (24)..(24)
<223> Substituted amino acid covalently linked to hydrophilic group

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> Substituted amino acid covalently linked to acyl or alkyl group

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 215

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

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

Ser Gly Ala Pro Pro Pro Ser Xaa
35 40

<210> 216
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> SEQ ID NO: 157

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (24)..(24)
<223> Substituted amino acid covalently linked to hydrophilic group

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 216

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

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

Ser Gly Ala Pro Pro Pro Ser Xaa
35 40

<210> 217
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>

<221> MISC_FEATURE
<223> SEQ ID NO: 235

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Substituted amino acid covalently linked to acyl or alkyl group

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 217

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 218
<211> 41
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> SEQ ID NO: 160

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (40)..(40)

<223> Substituted amino acid covalently linked to acyl or alkyl group

<220>
<221> MISC_FEATURE
<222> (41)..(41)
<223> C-terminal amidation

<400> 218

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

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

Ser Gly Ala Pro Pro Pro Ser Xaa Cys
35 40

<210> 219
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> SEQ ID NO: 162

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Substituted amino acid covalently linked to acyl or alkyl group

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (24)..(24)
<223> Substituted amino acid covalently linked to hydrophilic group

<220>
<221> MISC_FEATURE
<222> (39)..(39)
<223> C-terminal amidation

<400> 219

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

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

Ser Gly Ala Pro Pro Pro Ser
        35

<210> 220
<211> 41
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> SEQ ID NO: 163

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> Substituted amino acid covalently linked to acyl or alkyl group

<220>
<221> MISC_FEATURE
<222> (41)..(41)
<223> Substituted amino acid covalently linked to hydrophilic group

<220>
<221> MISC_FEATURE
<222> (41)..(41)
<223> C-terminal amidation

<400> 220

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

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

Ser Gly Ala Pro Pro Pro Ser Xaa Xaa
        35   40

<210> 221

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

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> SEQ ID NO: 164

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (41)..(41)
<223> Substituted amino acid covalently linked to hydrophilic group

<220>
<221> MISC_FEATURE
<222> (41)..(41)
<223> C-terminal amidation

<400> 221

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

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

Ser Gly Ala Pro Pro Pro Ser Lys Xaa
35 40

<210> 222
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> SEQ ID NO: 165

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> Substituted amino acid covalently linked to acyl or alkyl group

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 222

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

Gln Ala Ala Lys Glu Phe Ile Cys Trp Leu Met Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser Xaa
35 40

<210> 223
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> SEQ ID NO: 166

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (24)..(24)
<223> Substituted amino acid covalently linked to hydrophilic group

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> Substituted amino acid covalently linked to acyl or alkyl group

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 223

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

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

Ser Gly Ala Pro Pro Pro Ser Xaa
35 40

<210> 224
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synethic polypeptide

<220>
<221> MISC_FEATURE
<223> SEQ ID NO: 173

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (16)..(16)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> Substituted amino acid covalently linked to hydrophilic group

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 224

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

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

Ser Gly Ala Pro Pro Pro Ser Xaa
35 40

<210> 225
<211> 40

<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> SEQ ID NO: 174

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (16)..(16)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> Substituted amino acid covalently linked to hydrophilic group

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 225

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

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

Ser Gly Ala Pro Pro Pro Ser Xaa
35 40

<210> 226
<211> 30
<212> PRT
<213> Artificial Sequene

<220>
<223> Synthetic polypeptide

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (24)..(24)
<223> Substituted amino acid covalently linked to hydrophilic group

<400> 226

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

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

<210> 227
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (29)..(29)
<223> C-terminal amidation

<400> 227

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

Gln Ala Ala Xaa Glu Phe Val Asn Trp Leu Leu Ala Gly
20 25

<210> 228
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is D-Ser, DAla, Val, Gly, N-Methyl Ser, N-Methyl Ala, or Aib

<220>
<221> MOD_RES
<222> (16)..(16)
<223> Xaa is Lys, Glu, Ser, Orn, Dab, Aib or any alpha,

alpha-disubstituted amino acid

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is any alpha, alpha-disubstituted amino acid

<220>
<221> MOD_RES
<222> (27)..(27)
<223> Xaa is Ile, Leu, or Nle

<220>
<221> MOD_RES
<222> (28)..(28)
<223> Xaa is Ala or Gly

<220>
<221> MOD_RES
<222> (29)..(29)
<223> Xaa is Thr, Ala, or Gly

<220>
<221> MISC_FEATURE
<222> (29)..(29)
<223> C-terminal amidation

<400> 228

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

Gln Ala Ala Xaa Glu Phe Val Asn Trp Leu Xaa Xaa Xaa
20 25

<210> 229
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (29)..(29)
<223> C-terminal amidation

<400> 229

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

Arg Arg Ala Xaa Asp Phe Val Gln Trp Leu Leu Ala Gly
20 25

<210> 230
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is D-Ser, DAla, Val, Gly, N-Methyl Ser, N-Methyl Ala, or Aib

<220>
<221> MOD_RES
<222> (16)..(16)
<223> Xaa is Lys, Glu, Ser, Orn, Dab, Aib or any alpha,
alpha-disubstituted amino acid

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is any alpha, alpha-disubstituted amino acid

<220>
<221> MOD_RES
<222> (27)..(27)
<223> Xaa is Ile, Leu, or Nle

<220>
<221> MOD_RES
<222> (28)..(28)
<223> Xaa is Ala or Gly

<220>
<221> MOD_RES
<222> (29)..(29)
<223> Xaa is Thr, Ala, or Gly

<220>
<221> MOD_RES
<222> (29)..(29)
<223> C-terminal amidation

<400> 230

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

Arg Arg Ala Xaa Asp Phe Val Gln Trp Leu Xaa Xaa Xaa
20 25

<210> 231
<211> 41
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Mt-354

<220>
<221> MISC_FEATURE
<223> Homodimer

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> 14 Carbon fatty acyl group covalently bound to Lysine

<220>
<221> MOD_RES
<222> (40)..(40)
<223> C-terminal amidation

<220>
<221> DISULFID
<222> (41)..(41)
<223> Disulfide bond formed with Cys residue of a second peptide having the same structure.

<400> 231

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

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

Ser Gly Ala Pro Pro Pro Ser Lys Cys
35 40

<210> 232
<211> 40
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Mt-356

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 232

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

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

Ser Gly Ala Pro Pro Pro Ser Lys
35 40

<210> 233
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Mt-357

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 233

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

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

Ser Gly Ala Pro Pro Pro Ser Lys
35 40

<210> 234
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Mt-358

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> 16 Carbon fatty acyl group covalently bound to Lysine

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 234

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

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

Ser Gly Ala Pro Pro Pro Ser Lys
35 40

<210> 235

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

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Mt-367

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> 16 Carbon fatty acyl group covalently bound to Lysine via a gamma-Glu-gamma-Glu spacer

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 235

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

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

Ser Gly Ala Pro Pro Pro Ser Lys
35 40

<210> 236
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Mt-368

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

<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> 16 Carbon fatty acyl group covalently bound to Lysine via a gamma-Glu-gamma-Glu spacer

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 236

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

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

Ser Gly Ala Pro Pro Pro Ser Lys
35 40

<210> 237
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Mt-369

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> 16 Carbon fatty acyl group covalently bound to Lysine via gamma-Glu-gamma-Glu spacer

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE

<222> (40)..(40)
<223> C-terminal amidation

<400> 237

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

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

Ser Gly Ala Pro Pro Pro Ser Lys
35 40

<210> 238
<211> 41
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Mt-376

<220>
<221> MISC_FEATURE
<223> Homodimer

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> 14 Carbon fatty acyl group covelently bound to Lysine

<220>
<221> MISC_FEATURE
<222> (41)..(41)
<223> C-terminal amidation

<220>
<221> MISC_FEATURE
<222> (41)..(41)
<223> Cys residue covalently attached to 20 kDa PEG which is in turn covalently attached to a Cys residue of a second peptide having the same structure

<400> 238

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

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

Ser Gly Ala Pro Pro Pro Ser Lys Cys
35 40

<210> 239
<211> 41
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Mt-377

<220>
<221> MISC_FEATURE
<223> homodimer

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> 14 Carbon fatty acyl group covalently bound to Lysine

<220>
<221> MISC_FEATURE
<222> (41)..(41)
<223> PEG (5kDa) covalently bound to Cysteine

<220>
<221> MISC_FEATURE
<222> (41)..(41)
<223> C-terminal amidation

<220>
<221> MISC_FEATURE
<222> (41)..(41)
<223> Cys residue covalently attached to 5 kDa PEG which is in turn covalently attached to a Cys residue of a second peptide having the same structure

<400> 239

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

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

Ser Gly Ala Pro Pro Pro Ser Lys Cys
35 40

<210> 240
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Peptide J

<220>
<221> MOD_RES
<222> (3)..(3)
<223> Xaa is a Glutamine analog

<220>
<221> MOD_RES
<222> (27)..(27)
<223> Xaa is Nle

<400> 240

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

Arg Arg Ala Ala Glu Phe Val Ala Trp Leu Xaa Asp Glu
20 25

<210> 241
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> Peptide K

<220>
<221> MOD_RES
<222> (3)..(3)
<223> Xaa is a Glutamine analog

<220>
<221> MOD_RES
<222> (16)..(16)
<223> Xaa is Aib

<400> 241

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

Arg Arg Ala Ala Asp Phe Val Ala Trp Leu Met Asp Glu
20 25

<210> 242
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MOD_RES
<222> (27)..(27)
<223> Xaa is Nle

<400> 242

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

Arg Arg Ala Ala Glu Phe Val Ala Trp Leu Xaa Asp Glu
20 25

<210> 243
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MOD_RES
<222> (3)..(3)
<223> Xaa is Acetamidomethyl-cysteine

<220>
<221> MOD_RES
<222> (27)..(27)
<223> Xaa is Nle

<400> 243

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

Arg Arg Ala Ala Glu Phe Val Ala Trp Leu Xaa Asp Glu
            20   25

<210> 244
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MOD_RES
<222> (3)..(3)
<223> Xaa is Acetyldiaminobutanoic acid

<220>
<221> MOD_RES
<222> (27)..(27)
<223> Xaa is Nle

<400> 244

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

Arg Arg Ala Ala Glu Phe Val Ala Trp Leu Xaa Asp Glu
            20   25

<210> 245
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MOD_RES
<222> (3)..(3)
<223> Xaa is carbamoyldiaminopropanoic acid

<220>
<221> MOD_RES
<222> (27)..(27)
<223> Xaa is Nle

<400> 245

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

Arg Arg Ala Ala Glu Phe Val Ala Trp Leu Xaa Asp Glu
            20   25

<210> 246
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MOD_RES
<222> (3)..(3)
<223> Xaa is Methylglutamine

<220>
<221> MOD_RES
<222> (27)..(27)
<223> Xaa is Nle

<400> 246

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

Arg Arg Ala Ala Glu Phe Val Ala Trp Leu Xaa Asp Glu
20 25

<210> 247
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MOD_RES
<222> (3)..(3)
<223> Xaa is Methionine sulfoxide

<220>
<221> MOD_RES
<222> (27)..(27)
<223> Xaa is Nle

<400> 247

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

Arg Arg Ala Ala Glu Phe Val Ala Trp Leu Xaa Asp Glu
20 25

<210> 248
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MOD_RES
<222> (3)..(3)
<223> Xaa is Acetylornithine

<220>
<221> MOD_RES
<222> (27)..(27)
<223> Xaa is Nle

<400> 248

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

Arg Arg Ala Ala Glu Phe Val Ala Trp Leu Xaa Asp Glu
20 25

<210> 249
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MOD_RES
<222> (16)..(16)
<223> Xaa is Aib

<400> 249

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

Arg Arg Ala Ala Asp Phe Val Ala Trp Leu Met Asp Glu
20 25

<210> 250
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MOD_RES
<222> (3)..(3)
<223> Xaa is Acetyldiaminobutanoic acid

<220>

<221> MOD_RES
<222> (16)..(16)
<223> Xaa is Aib

<400> 250

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

Arg Arg Ala Ala Asp Phe Val Ala Trp Leu Met Asp Glu
20 25

<210> 251
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MOD_RES
<222> (3)..(3)
<223> Xaa is Methylglutamine

<220>
<221> MOD_RES
<222> (16)..(16)
<223> Xaa is Aib

<400> 251

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

Arg Arg Ala Ala Asp Phe Val Ala Trp Leu Met Asp Glu
20 25

<210> 252
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 252

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

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

<210> 253
<211> 29

<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MOD_RES
<222> (3)..(3)
<223> Xaa is Acetyldiaminobutanoic acid

<220>
<221> MOD_RES
<222> (16)..(16)
<223> Xaa is Aib

<400> 253

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

Arg Arg Ala Ala Asp Phe Val Ala Trp Leu Leu Asp Glu
20 25

<210> 254
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MOD_RES
<222> (3)..(3)
<223> Xaa is Acetyldiaminobutanoic acid

<220>
<221> MOD_RES
<222> (16)..(16)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (39)..(39)
<223> C-terminal amidation

<400> 254

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

Arg Arg Ala Ala Asp Phe Val Ala Trp Leu Leu Asp Thr Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 255
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MOD_RES
<222> (3)..(3)
<223> Xaa is Acetyldiaminobutanoic acid

<220>
<221> MOD_RES
<222> (16)..(16)
<223> Xaa is Aib

<400> 255

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

Arg Arg Ala Ser Asp Phe Val Ser Trp Leu Leu Asp Glu
20 25

<210> 256
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MOD_RES
<222> (3)..(3)
<223> Xaa is Acetyldiaminobutanoic acid

<220>
<221> MOD_RES
<222> (16)..(16)
<223> Xaa is Aib

<400> 256

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

Arg Arg Ala Thr Asp Phe Val Thr Trp Leu Leu Asp Glu
20 25

<210> 257

<400> 257

000

<210> 258

<400> 258
000

<210> 259
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<223> mt-225

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge links Glu16 and Lys20

<220>
<221> MOD_RES
<222> (40)..(40)
<223> Epsilon amine of Lys is attached to Ala-Ac-Cys(PEG), wherein the Ac-Cys(PEG) is a Cys residue comprising an alpha amino group capped with an acetyl group (CH3CO) and comprising a 40 kDa PEG covalently attached to its side chain

<400> 259

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


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


Ser Gly Ala Pro Pro Pro Ser Lys
        35                  40
```

<210> 260
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE

<223> mt-227

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge links Glu16 and Lys20

<220>
<221> MOD_RES
<222> (40)..(40)
<223> Epsilon amine of Lys is attached to Arg-Ac-Cys(PEG), wherein the Ac-Cys(PEG) is a Cys residue comprising an alpha amino group capped with an acetyl group (CH3CO) and comprising a 40 kDa PEG covalently attached to its side chain

<400> 260

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

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

Ser Gly Ala Pro Pro Pro Ser Lys
35 40

<210> 261
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<223> mt-294

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge links Glu16 and Lys20

<220>
<221> MOD_RES
<222> (40)..(40)
<223> Cys-PEG covalently linked via thioether linkage

<400> 261

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

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

Ser Gly Ala Pro Pro Pro Ser Cys
35 40

<210> 262
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<400> 262

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

Arg Arg Ala Gln Asp Phe Val Gln Trp Leu Met Asn Thr Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser Lys
35 40

<210> 263
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<223> mt-217

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge

<220>
<221> MOD_RES
<222> (24)..(24)
<223> Epsilon amine is peptide bonded to Ala residue which is attached to an acetylated Cys which is attached to a 40kDa PEG

<220>
<221> MOD_RES
<222> (39)..(39)
<223> C-terminal amidation

<400> 263

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 264
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<223> mt-218

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge

<220>
<221> MISC_FEATURE
<222> (24)..(24)
<223> Epsilon amine is peptide bonded to Glu residue which is attached to an acetylated Cys which is attached to a 40kDa PEG

<220>
<221> MISC_FEATURE
<222> (39)..(39)
<223> C-terminal amidation

<400> 264

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

1 5 10 15

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 265
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<223> mt-219

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge

<220>
<221> MOD_RES
<222> (24)..(24)
<223> Epsilon amine is peptide bonded to Arg residue which is attached to an acetylated Cys which is attached to a 40kDa PEG

<220>
<221> MOD_RES
<222> (39)..(39)
<223> C-terminal amidation

<400> 265

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 266
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<223> mt-220

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge

<220>
<221> MOD_RES
<222> (24)..(24)
<223> Epsilon amine is peptide bonded to Phe residue which is attached to an acetylated Cys which is attached to a 40kDa PEG

<220>
<221> MOD_RES
<222> (39)..(39)
<223> C-terminal amidation

<400> 266

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 267
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<223> mt-226

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is AIB

<220>

<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge

<220>
<221> MOD_RES
<222> (40)..(40)
<223> Epsilon amine is peptide bonded to Glu residue which is attached to an acetylated Cys which is attached to a 40kDa PEG

<220>
<221> MOD_RES
<222> (40)..(40)
<223> C-terminal amidation

<400> 267

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

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

Ser Gly Ala Pro Pro Pro Ser Lys
35 40

<210> 268
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<223> mt-228

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> Epsilon amine is peptide bonded to Phe residue which is attached to an acetylated Cys which is attached to a 40kDa PEG

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 268

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

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

Ser Gly Ala Pro Pro Pro Ser Lys
35 40

<210> 269
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<223> mt-402

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaais AIB

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaais AIB

<400> 269

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

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

Ser Gly Ala Pro Pro Pro Ser Lys
35 40

<210> 270
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<223> mt-403

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is AIB

<220>
<221> MOD_RES
<222> (40)..(40)
<223> Acylated with C16 fatty acyl group via epsilon amine

<400> 270

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

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

Ser Gly Ala Pro Pro Pro Ser Lys
35 40

<210> 271
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<223> mt-404

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is AIB

<400> 271

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

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

Ser Gly Ala Pro Pro Pro Ser Lys
35 40

<210> 272

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

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<223> mt-405

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

<220>
<221> MOD_RES
<222> (40)..(40)
<223> Acylated with C16 fatty acyl group via epsilon amine

<400> 272

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

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

Ser Gly Ala Pro Pro Pro Ser Lys
35 40

<210> 273
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<223> mt-395

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is AIB

<220>
<221> MOD_RES
<222> (39)..(39)
<223> C-terminal amidation

<400> 273

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 274
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<223> mt-396

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is AIB

<220>
<221> MOD_RES
<222> (40)..(40)
<223> C-terminal amidation

<400> 274

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

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

Ser Gly Ala Pro Pro Pro Ser Glu
35 40

<210> 275
<211> 40
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<223> mt-397

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is AIB

<220>
<221> MOD_RES
<222> (40)..(40)
<223> C-terminal amidation

<400> 275

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

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

Ser Gly Ala Pro Pro Pro Ser Arg
35 40

<210> 276
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<223> mt-398

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is AIB

<220>
<221> MOD_RES
<222> (40)..(40)
<223> D-Lys

<220>
<221> MOD_RES
<222> (40)..(40)
<223> C-terminal amidation

<400> 276

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

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

Ser Gly Ala Pro Pro Pro Ser Lys
35 40

<210> 277
<211> 29
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<223> Wild type glucagon

<400> 277

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

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

<210> 278
<211> 42
<212> PRT
<213> Homo sapiens

<220>
<221> mat_peptide
<222> (1)..(42)
<223> Gastric Inhibitory Polypeptide

<400> 278

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

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

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

<210> 279
<211> 30
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<222> (1)..(30)
<223> GLP-1(7-36) amidated

<220>
<221> MISC_FEATURE
<222> (30)..(30)
<223> C-terminal amidation

<400> 279

His Ala Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly
1 5 10 15

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

<210> 280
<211> 31
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (1)..(31)
<223> GLP-1(7-37)

<400> 280

His Ala Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly
1 5 10 15

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

<210> 281
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 281

Gly Pro Ser Ser Gly Ala Pro Pro Pro Ser

1 5 10

<210> 282
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 282

Gly Gly Pro Ser Ser Gly Ala Pro Pro Pro Ser
1 5 10

<210> 283
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 283

Lys Arg Asn Arg Asn Asn Ile Ala
1 5

<210> 284
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 284

Lys Arg Asn Arg
1

<210> 285
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 285

Gly Pro Ser Ser Gly Ala Pro Pro Pro Ser Lys
1 5 10

<210> 286
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<223> mt-263

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 286

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

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

Ser Gly Ala Pro Pro Pro Ser Lys
35 40

<210> 287
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<223> mt-402

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

<220>
<221> misc_feature
<222> (20)..(20)
<223> Xaa can be any naturally occurring amino acid

<400> 287

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

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

Ser Gly Ala Pro Pro Pro Ser Lys
35 40

<210> 288
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<223> mt-403

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<400> 288

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

Ile His Gln Lys Glu Phe Ile Ala Trp Leu Met Asn Thr
20 25

<210> 289
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<223> mt-404

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<400> 289

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

Ile His Gln Lys Glu Phe Ile Ala Trp Leu Met Asn Thr
20 25

<210> 290
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<223> mt-405

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<400> 290

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

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

<210> 291
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<223> mt-395

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<400> 291

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 292
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<223> mt-396

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<400> 292

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 293
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<223> mt-397

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<400> 293

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

Ile His Gln Lys Glu Phe Val Asn Trp Leu Leu Ala Gln
20 25

<210> 294

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

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<223> mt-398

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge between residues 16 and 20

<400> 294

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

Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Met Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 295
<211> 42
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<223> mt-217

<400> 295

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

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

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

<210> 296
<211> 42
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<223> mt-218

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<400> 296

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

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

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

<210> 297
<211> 42
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<223> mt-219

<400> 297

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

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

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

<210> 298
<211> 42
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<223> mt-220

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<400> 298

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

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

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

<210> 299
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<223> mt-225

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge links Glu16 and Lys20

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> Epsilon amine of Lys is attached to Ala-Ac-Cys(PEG), wherein the Ac-Cys(PEG) is a Cys residue comprising an alpha amino group capped with an acetyl group (CH3CO) and comprising a 40 kDa PEG covalently attached to its side chain

<400> 299

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

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

Ser Gly Ala Pro Pro Pro Ser Lys
35 40

<210> 300
<211> 42
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<223> mt-226

<400> 300

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

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

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

<210> 301
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<223> mt-227

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Lactam bridge links Glu16 and Lys20

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> Epsilon amine of Lys is attached to Arg-Ac-Cys(PEG), wherein the Ac-Cys(PEG) is a Cys residue comprising an alpha amino group capped with an acetyl group (CH3CO) and comprising a 40 kDa PEG covalently attached to its side chain

<400> 301

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

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

Ser Gly Ala Pro Pro Pro Ser Lys
35 40

<210> 302
<211> 42
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<223> mt-228

<220>
<221> MISC_FEATURE
<222> (24)..(24)
<223> PEG (40kDa) bound to Cysteine

<400> 302

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

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

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

<210> 303
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Sythetic peptide

<220>
<221> MISC_FEATURE
<223> Analog #29

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> d-Ser

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Acylated with a C16 fatty acyl group via gamma-Glu spacer

<220>
<221> MISC_FEATURE
<222> (39)..(39)
<223> C-terminal amidation

<400> 303

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

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

Ser Gly Ala Pro Pro Pro Ser
        35

<210> 304
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<223> Analog #30

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Acylated with a C16 fatty acyl group via gamma-Glu spacer

<220>
<221> MISC_FEATURE
<222> (39)..(39)
<223> C-terminal amidation

<400> 304

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 305
<211> 31
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<223> Analog #34

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Acylated with a C16 fatty acyl group via gamma-Glu spacer

<220>
<221> MISC_FEATURE
<222> (31)..(31)
<223> C-terminal amidation

<400> 305

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

Arg Ala Ala Gln Asp Phe Val Gln Trp Leu Leu Asp Gly Arg Gly
20 25 30

<210> 306
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<223> Analog #36

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> d-Ser

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

<223> Acylated with a C16 fatty acyl group via gamma-Glu spacer

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (29)..(29)
<223> C-terminal amidation

<400> 306

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

Arg Arg Ala Xaa Glu Phe Val Gln Trp Leu Leu Asp Thr
20 25

<210> 307
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<223> Analog #37

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Acylated with a C16 fatty acyl group via gamma-Glu spacer

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (29)..(29)
<223> C-terminal amidation

<400> 307

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

Arg Arg Ala Xaa Glu Phe Val Gln Trp Leu Leu Asp Thr
20 25

<210> 308
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Sythetic peptide

<220>
<221> MISC_FEATURE
<223> Analog #44

<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> Xaa is DMIA

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> d-Ser

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Acylated with C16 fatty acyl group via gamma-Glu spacer

<220>
<221> MISC_FEATURE
<222> (29)..(29)
<223> C-terminal amidation

<400> 308

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

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

<210> 309
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<223> Analog #49

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Acylated with a C16 fatty acyl group via gamma-Glu-gamma-Glu spacer

<220>
<221> MISC_FEATURE
<222> (16)..(16)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (39)..(39)
<223> C-terminal amidation

<400> 309

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

Arg Ala Ala Gln Asp Phe Val Gln Trp Leu Met Asp Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 310

<400> 310
000

<210> 311
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<223> Analog #53

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Acylated with a C16 fatty acyl group via gamma-Glu-gamma-Glu spacer

<220>
<221> MISC_FEATURE
<222> (16)..(16)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (39)..(39)
<223> C-terminal amidation

<400> 311

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

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

Ser Gly Ala Pro Pro Pro Ser
        35

<210> 312
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<223> Analog #54

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

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Acylated with C16 fatty acyl group via gamma-Glu-gamma-Glu spacer

<220>
<221> MISC_FEATURE
<222> (16)..(16)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (16)..(16)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (39)..(39)
<223> C-terminal amidation

<400> 312

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

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

Ser Gly Ala Pro Pro Pro Ser
        35

<210> 313
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Sythetic peptide

<220>
<221> MISC_FEATURE
<223> Analog #61

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Acylated with a C16 fatty acyl group via gamma-Glu spacer

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (39)..(39)
<223> C-terminal amidation

<400> 313

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

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

Ser Gly Ala Pro Pro Pro Ser
        35

<210> 314
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<223> Analog #62

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Acylated with a C16 fatty acyl group via gamma-Glu spacer

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (39)..(39)
<223> C-terminal amidation

<400> 314

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 315
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<223> Analog #63

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Acylated with a C16 fatty acyl group via gamma-Glu spacer

<220>
<221> MISC_FEATURE
<222> (39)..(39)
<223> C-terminal amidation

<400> 315

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 316
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<223> Analog #64

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Acylated with a C16 fatty acyl group via gamma-Glu spacer

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (29)..(29)
<223> C-terminal amidation

<400> 316

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

Arg Arg Ala Xaa Glu Phe Val Gln Trp Leu Leu Asp Thr
20 25

<210> 317

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

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<223> Analog #65

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Acylated with a C16 fatty acyl group via gamma-Glu spacer

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (39)..(39)
<223> C-terminal amidation

<400> 317

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 318
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (16)..(16)

<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (29)..(29)
<223> C-terminal amidation

<400> 318

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

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

<210> 319
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (9)..(9)
<223> Acylated with a C16 fatty acyl group via gamma-Glu-gamma-Glu spacer

<220>
<221> MISC_FEATURE
<222> (16)..(16)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (29)..(29)
<223> C-terminal amidation

<400> 319

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

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

<210> 320
<211> 29
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Acylated with a C16 fatty acyl group via gamma-Glu-gamma-Glu spacer

<220>
<221> MISC_FEATURE
<222> (16)..(16)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (29)..(29)
<223> C-terminal amidation

<400> 320

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

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

<210> 321
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (12)..(12)
<223> Acylated with a C16 fatty acyl group via gamma-Glu-gamma-Glu spacer

<220>
<221> MISC_FEATURE
<222> (16)..(16)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (29)..(29)
<223> C-terminal amidation

<400> 321

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

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

<210> 322
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Sythetic peptide

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (16)..(16)
<223> Acylated with a C16 fatty acyl group via gamma-Glu-gamma-Glu spacer

<220>
<221> MISC_FEATURE
<222> (29)..(29)
<223> C-terminal amidation

<400> 322

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

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

<210> 323
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (16)..(16)

<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Acylated with a C16 fatty acyl group via gamma-Glu-gamma-Glu spacer

<220>
<221> MISC_FEATURE
<222> (29)..(29)
<223> C-terminal amidation

<400> 323

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

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

<210> 324
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> d-Ser

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 324

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

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

Ser Gly Ala Pro Pro Pro Ser Cys
35 40

<210> 325

<400> 325
000

<210> 326
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> d-Ser

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 326

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

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

Ser Gly Ala Pro Pro Pro Ser Cys
35 40

<210> 327
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> d-Ser

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (40)..(40)

<223> Covalently bound to 40kDa PEG via thioether made by reaction of peptide with haloacetyl-activated PEG

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 327

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

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

Ser Gly Ala Pro Pro Pro Ser Cys
35 40

<210> 328
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 328

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

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

Ser Gly Ala Pro Pro Pro Ser Cys
35 40

<210> 329
<211> 40
<212> PRT

<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> Covalently bound to 40kDa PEG via thioether made by reaction of peptide with haloacetyl-activated PEG

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 329

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

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

Ser Gly Ala Pro Pro Pro Ser Cys
35 40

<210> 330
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa is AIB

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

<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 330

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

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

Ser Gly Ala Pro Pro Pro Ser Cys
        35   40

<210> 331

<400> 331
000

<210> 332
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> Linked via lactam bridge

<220>
<221> MISC_FEATURE
<222> (24)..(24)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 332

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

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

Ser Gly Ala Pro Pro Pro Ser Cys
35 40

<210> 333

<400> 333
000

<210> 334
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (17)..(21)
<223> Linked via lactam bridge

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 334

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

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

Ser Gly Ala Pro Pro Pro Ser Cys
35 40

<210> 335
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (17)..(21)
<223> Linked via lactam bridge

<220>
<221> MISC_FEATURE
<222> (21)..(21)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> Covalently bound to 40kDa PEG via thioether made by reaction of peptide with haloacetyl-activated PEG

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 335

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

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

Ser Gly Ala Pro Pro Pro Ser Cys
35 40

<210> 336
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa is 1-aminocyclopropane-1-carboxylate

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 336

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

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

Ser Gly Ala Pro Pro Pro Ser Cys
35 40

<210> 337

<400> 337
000

<210> 338
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Acylated with a C14 acyl group via gamma-Glu spacer

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 338

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 339
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Acylated with a C14 fatty acyl group via gamma-Glu spacer

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> Covalently bound to 40kDa PEG via thioether made by reaction of peptide with haloacetyl-activated PEG

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 339

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

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

Ser Gly Ala Pro Pro Pro Ser Cys
35 40

<210> 340
<211> 41
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> Acylated with a C14 fatty acyl group via gamma-Glu spacer

<220>
<221> MISC_FEATURE
<222> (41)..(41)
<223> C-terminal amidation

<400> 340

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

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

Ser Gly Ala Pro Pro Pro Ser Lys Gly
35 40

<210> 341
<211> 41
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> Acylated with a C14 fatty acyl group via gamma-Glu spacer

<220>
<221> MISC_FEATURE
<222> (41)..(41)
<223> Covalently bound to a 40kDa PEG via thioether made by reaction of peptide with maleimide-activated PEG

<220>
<221> MISC_FEATURE
<222> (41)..(41)
<223> C-terminal amidation

<400> 341

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

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

Ser Gly Ala Pro Pro Pro Ser Lys Cys
35 40

<210> 342
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> Covalently bound to 40kDa PEG via thioether made by reactioni of peptide with a maleimide-activated PEG

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 342

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

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

Ser Gly Ala Pro Pro Pro Ser Cys
35 40

<210> 343

<400> 343
000

<210> 344
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Acylated with a C14 fatty acyl group via gamma-Glu spacer

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> Covalently bound to 40kDa PEG via thioether made by reaction of peptide with maleimide-actived PEG

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 344

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

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

Ser Gly Ala Pro Pro Pro Ser Cys
35 40

<210> 345
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Acylated with a C16 fatty acyl group via gamma-Glu spacer

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> Covalently bound to 40kDa PEG via thioether made by reaction of peptide with maleimide-activated PEG

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 345

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

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

Ser Gly Ala Pro Pro Pro Ser Cys
35 40

<210> 346
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (24)..(24)
<223> Covalently bound to 40kDa PEG via thioether made by reaction of peptide with maleimide-actived PEG

<220>
<221> MISC_FEATURE

<222> (40)..(40)
<223> Acylated with a C16 fatty acyl group

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 346

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

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

Ser Gly Ala Pro Pro Pro Ser Lys
35 40

<210> 347

<400> 347
000

<210> 348
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> Covalently bound to 40kDa PEG via thioether made by reaction of peptide with haloacetyl-actived PEG

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 348

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

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

Ser Gly Ala Pro Pro Pro Ser Cys
35 40

<210> 349
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptid

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa is 1-aminocyclopropane-1-carboxylate

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> Covalently bound to 40kDa PEG via thioether made by reaction of peptide with a haloacetyl-activaed PEG

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 349

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

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

Ser Gly Ala Pro Pro Pro Ser Cys
35 40

<210> 350
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE

<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa is 1-aminocyclopropane-1-carboxylate

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> Covalently bound to 40kDa PEG via thioether made by reaction of peptide and haloacetyl-activated PEG

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 350

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

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

Ser Gly Ala Pro Pro Pro Ser Cys
35 40

<210> 351
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa is 1-aminocyclopropane-1-carboxylate

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> Covalently bound to 40kDa PEG via thioether made by reaction of peptide with haloacetyl-activated PEG

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 351

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

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

Ser Gly Ala Pro Pro Pro Ser Cys
35 40

<210> 352
<211> 31
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Acylated with a C16 fatty acyl group via gamma-Glu spacer

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (31)..(31)
<223> C-terminal amidation

<400> 352

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

Arg Arg Ala Xaa Glu Phe Val Gln Trp Leu Leu Asp Gly Arg Gly
20 25 30

<210> 353
<211> 31
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>

<221> MISC_FEATURE
<222> (2)..(2)
<223> d-Ser

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Acylated with a C16 fatty acyl group via gamma-Glu spacer

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (31)..(31)
<223> C-terminal amiation

<400> 353

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

Arg Arg Ala Xaa Glu Phe Val Gln Trp Leu Leu Asp Gly Arg Gly
20 25 30

<210> 354
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> d-Ser

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Acylated with a C16 fatty acyl group via gamma-Glu spacer

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (39)..(39)
<223> C-terminal amidation

<400> 354

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 355
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptid

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Acylated with a C16 fatty acyl group via gamma-Glu spacer

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (39)..(39)
<223> C-terminal amidation

<400> 355

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 356
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE

<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Acylated with C16 fatty acyl group via gamma-Glu spacer

<220>
<221> MISC_FEATURE
<222> (39)..(39)
<223> C-terminal amidation

<400> 356

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

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

Ser Gly Ala Pro Pro Pro Ser
        35

<210> 357
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Acylated with C16 fatty acyl group via gamma-Glu-gamma-Glu spacer

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (39)..(39)
<223> C-terminal amidation

<400> 357

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

Gln Ala Ala Xaa Glu Phe Val Asn Trp Leu Leu Ala Gly Gly Pro Ser

20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 358
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Acylated with C16 fatty acyl group via gamma-Glu-gamma-Glu spacer

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (39)..(39)
<223> C-terminal amidation

<400> 358

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 359
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Acylated with a C16 fatty acyl group via gamma-Glu spacer

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (39)..(39)
<223> C-terminal amidation

<400> 359

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

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

Ser Gly Ala Pro Pro Pro Ser
        35

<210> 360
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Acylated with C16 fatty acyl group via gamma-Glu spacer

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (39)..(39)
<223> C-terminal amidation

<400> 360

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 361
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptid

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Acylated with a C16 fatty acyl group via gamma-Glu spacer

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (29)..(29)
<223> C-terminal amidation

<400> 361

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

Arg Arg Ala Xaa Glu Phe Val Gln Trp Leu Leu Asp Thr
20 25

<210> 362
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> Acylated with a C16 fatty acyl group

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 362

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

Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Met Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser Lys
35 40

<210> 363
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> Acylated with C16 fatty acyl group

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 363

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

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

Ser Gly Ala Pro Pro Pro Ser Lys
35 40

<210> 364
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> Acylated with a C16 fatty acyl group

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 364

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

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

Ser Gly Ala Pro Pro Pro Ser Lys
35 40

<210> 365
<211> 41
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE

<222> (40)..(40)
<223> Acylated with a C16 fatty acyl group via gamma-Glu-gamma-Glu spacer

<220>
<221> MISC_FEATURE
<222> (41)..(41)
<223> C-terminal amidation

<400> 365

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

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

Ser Gly Ala Pro Pro Pro Ser Lys Gly
35 40

<210> 366
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Acylated with a C16 fatty acyl group via gamma-Glu-gamma-Glu spacer

<220>
<221> MISC_FEATURE
<222> (39)..(39)
<223> C-terminal amidation

<400> 366

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 367

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

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Acylated with a C16 fatty acyl group via gamma-Glu-gamma-Glu spacer

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (39)..(39)
<223> C-terminal amidation

<400> 367

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 368
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Acylated with a C16 fatty acyl group via gamma-Glu-gamma-Glu spacer

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (29)..(29)
<223> C-terminal amidation

<400> 368

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

Gln Ala Ala Xaa Glu Phe Val Asn Trp Leu Leu Asp Thr
20 25

<210> 369

<400> 369
000

<210> 370
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Sythetic peptide

<220>
<221> MISC_FEATURE
<223> Analog #29

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> d-Ser

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Acylated with a C16 fatty acyl group via acid amino acid spacer

<220>
<221> MISC_FEATURE
<222> (39)..(39)
<223> C-terminal amidation

<400> 370

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 371
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<223> Analog #30

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Acylated with a C16 fatty acyl group via acid amino acid spacer

<220>
<221> MISC_FEATURE
<222> (39)..(39)
<223> C-terminal amidation

<400> 371

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 372
<211> 31
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<223> Analog #34

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Acylated with a C16 fatty acyl group via acidic amino acid spacer

<220>
<221> MISC_FEATURE
<222> (31)..(31)
<223> C-terminal amidation

<400> 372

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

Arg Ala Ala Gln Asp Phe Val Gln Trp Leu Leu Asp Gly Arg Gly
20 25 30

<210> 373
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<223> Analog #36

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> d-Ser

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Acylated with a C16 fatty acyl group via acidic amino acid spacer

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (29)..(29)
<223> C-terminal amidation

<400> 373

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

Arg Arg Ala Xaa Glu Phe Val Gln Trp Leu Leu Asp Thr
20 25

<210> 374
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<223> Analog #37

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Acylated with a C16 fatty acyl group via acidic amino acid spacer

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (29)..(29)
<223> C-terminal amidation

<400> 374

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

Arg Arg Ala Xaa Glu Phe Val Gln Trp Leu Leu Asp Thr
20 25

<210> 375
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Sythetic peptide

<220>
<221> MISC_FEATURE
<223> Analog #44

<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> Xaa is DMIA

<220>

<221> MISC_FEATURE
<222> (2)..(2)
<223> d-Ser

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Acylated with C16 fatty acyl group via acidic amino acid spacer

<220>
<221> MISC_FEATURE
<222> (29)..(29)
<223> C-terminal amidation

<400> 375

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

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

<210> 376
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<223> Analog #49

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Acylated with a C16 fatty acyl group via dipeptide spacer

<220>
<221> MISC_FEATURE
<222> (16)..(16)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (39)..(39)
<223> C-terminal amidation

<400> 376

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

Arg Ala Ala Gln Asp Phe Val Gln Trp Leu Met Asp Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 377

<400> 377
000

<210> 378
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<223> Analog #53

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Acylated with a C16 fatty acyl group via dipeptide spacer

<220>
<221> MISC_FEATURE
<222> (16)..(16)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (39)..(39)
<223> C-terminal amidation

<400> 378

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 379
<211> 39
<212> PRT

<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<223> Analog #54

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Acylated with C16 fatty acyl group via acidic amino acid spacer

<220>
<221> MISC_FEATURE
<222> (16)..(16)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (39)..(39)
<223> C-terminal amidation

<400> 379

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 380
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Sythetic peptide

<220>
<221> MISC_FEATURE
<223> Analog #61

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>

<221> MISC_FEATURE
<222> (10)..(10)
<223> Acylated with a C16 fatty acyl group via acidic amino acid spacer

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (39)..(39)
<223> C-terminal amidation

<400> 380

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 381
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<223> Analog #62

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Acylated with a C16 fatty acyl group via acidic amino acid spacer

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (39)..(39)
<223> C-terminal amidation

<400> 381

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 382
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<223> Analog #63

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Acylated with a C16 fatty acyl group via acidic amino acid spacer

<220>
<221> MISC_FEATURE
<222> (39)..(39)
<223> C-terminal amidation

<400> 382

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 383
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<223> Analog #64

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Acylated with a C16 fatty acyl group via acidic amino acid spacer

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (29)..(29)
<223> C-terminal amidation

<400> 383

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

Arg Arg Ala Xaa Glu Phe Val Gln Trp Leu Leu Asp Thr
20 25

<210> 384
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<223> Analog #65

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Acylated with a C16 fatty acyl group via acidic amino acid spacer

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa is AIB

<220>

<221> MISC_FEATURE
<222> (39)..(39)
<223> C-terminal amidation

<400> 384

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 385
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (9)..(9)
<223> Acylated with a C16 fatty acyl group via dipeptide spacer

<220>
<221> MISC_FEATURE
<222> (16)..(16)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (29)..(29)
<223> C-terminal amidation

<400> 385

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

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

<210> 386
<211> 29
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Acylated with a C16 fatty acyl group via dipeptide spacer

<220>
<221> MISC_FEATURE
<222> (16)..(16)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (29)..(29)
<223> C-terminal amidation

<400> 386

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

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

<210> 387
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (12)..(12)
<223> Acylated with a C16 fatty acyl group via dipeptide spacer

<220>
<221> MISC_FEATURE
<222> (16)..(16)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (29)..(29)
<223> C-terminal amidation

<400> 387

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

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

<210> 388
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Sythetic peptide

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (16)..(16)
<223> Acylated with a C16 fatty acyl group via dipeptide spacer

<220>
<221> MISC_FEATURE
<222> (29)..(29)
<223> C-terminal amidation

<400> 388

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

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

<210> 389
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (16)..(16)
<223> Xaa is AIB

<220>

<221> MISC_FEATURE
<222> (20)..(20)
<223> Acylated with a C16 fatty acyl group via dipeptide spacer

<220>
<221> MISC_FEATURE
<222> (29)..(29)
<223> C-terminal amidation

<400> 389

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

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

<210> 390
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Acylated with a C14 acyl group via acidic amino acid spacer

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 390

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 391

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

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Acylated with a C14 fatty acyl group via acidic amino acid spacer

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> Covalently bound to 40kDa PEG via thioether made by reaction of peptide with haloacetyl-activated PEG

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 391

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 392
<211> 41
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>

<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> Acylated with a C14 fatty acyl group via acidic amino acid spacer

<220>
<221> MISC_FEATURE
<222> (41)..(41)
<223> C-terminal amidation

<400> 392

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

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

Ser Gly Ala Pro Pro Pro Ser Lys Gly
35 40

<210> 393
<211> 41
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> Acylated with a C14 fatty acyl group via acidic amino acid spacer

<220>
<221> MISC_FEATURE
<222> (41)..(41)
<223> Covalently bound to a 40kDa PEG via thioether made by reaction of peptide with maleimide-activated PEG

<220>
<221> MISC_FEATURE
<222> (41)..(41)
<223> C-terminal amidation

<400> 393

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

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

Ser Gly Ala Pro Pro Pro Ser Lys Cys
35 40

<210> 394
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Acylated with a C14 fatty acyl group via acidic amino acid spacer

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> Covalently bound to 40kDa PEG via thioether made by reaction of peptide with maleimide-actived PEG

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 394

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

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

Ser Gly Ala Pro Pro Pro Ser Cys
35 40

<210> 395
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Acylated with a C16 fatty acyl group via acidic amino acid spacer

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> Covalently bound to 40kDa PEG via thioether made by reaction of peptide with maleimide-activated PEG

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 395

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

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

Ser Gly Ala Pro Pro Pro Ser Cys
35 40

<210> 396
<211> 31
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Acylated with a C16 fatty acyl group via acidic amino acid spacer

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (31)..(31)
<223> C-terminal amidation

<400> 396

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

Arg Arg Ala Xaa Glu Phe Val Gln Trp Leu Leu Asp Gly Arg Gly
20 25 30

<210> 397
<211> 31
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> d-Ser

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Acylated with a C16 fatty acyl group via acidic amino acid spacer

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (31)..(31)
<223> C-terminal amiation

<400> 397

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

Arg Arg Ala Xaa Glu Phe Val Gln Trp Leu Leu Asp Gly Arg Gly
20 25 30

<210> 398
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> d-Ser

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Acylated with a C16 fatty acyl group via acidic amino acid spacer

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (39)..(39)
<223> C-terminal amidation

<400> 398

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 399
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Acylated with a C16 fatty acyl group via acidic amino acid spacer

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (39)..(39)
<223> C-terminal amidation

<400> 399

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 400
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Acylated with C16 fatty acyl group via acidic amino acid spacer

<220>
<221> MISC_FEATURE
<222> (39)..(39)
<223> C-terminal amidation

<400> 400

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 401

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

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Acylated with C16 fatty acyl group via dipeptide spacer

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (39)..(39)
<223> C-terminal amidation

<400> 401

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 402
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Acylated with C16 fatty acyl group via dipeptide spacer

<220>
<221> MISC_FEATURE

<222> (20)..(20)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (39)..(39)
<223> C-terminal amidation

<400> 402

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 403
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Acylated with a C16 fatty acyl group via acidic amino acid spacer

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (39)..(39)
<223> C-terminal amidation

<400> 403

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 404
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Acylated with C16 fatty acyl group via acidic amino acid spacer

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (39)..(39)
<223> C-terminal amidation

<400> 404

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 405
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptid

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Acylated with a C16 fatty acyl group via acidic amino acid spacer

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (29)..(29)
<223> C-terminal amidation

<400> 405

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

Arg Arg Ala Xaa Glu Phe Val Gln Trp Leu Leu Asp Thr
20 25

<210> 406
<211> 41
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> Acylated with a C16 fatty acyl group via dipeptide spacer

<220>
<221> MISC_FEATURE
<222> (41)..(41)
<223> C-terminal amidation

<400> 406

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

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

Ser Gly Ala Pro Pro Pro Ser Lys Gly
35 40

<210> 407
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Acylated with a C16 fatty acyl group via dipeptide spacer

<220>
<221> MISC_FEATURE
<222> (39)..(39)
<223> C-terminal amidation

<400> 407

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 408
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Acylated with a C16 fatty acyl group via dipeptide spacer

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (39)..(39)
<223> C-terminal amidation

<400> 408

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

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 409
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Acylated with a C16 fatty acyl group via dipeptide spacer

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> C-terminal amidation

<220>
<221> MISC_FEATURE
<222> (29)..(29)
<223> C-terminal amidation

<400> 409

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

Gln Ala Ala Xaa Glu Phe Val Asn Trp Leu Leu Asp Thr
20 25

<210> 410
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>

<221> MISC_FEATURE
<223> mt-261

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> 16 Carbon fatty acyl group covalently attached Lysine

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 410

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

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

Ser Gly Ala Pro Pro Pro Ser Lys
35 40

<210> 411
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<220>
<221> MISC_FEATURE
<223> mt-278

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Xaa is Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Xaa is Aib

<220>
<221> MISC_FEATURE
<222> (40)..(40)

<223> 16 Carbon fatty acyl group covalently attached to Lysine

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> C-terminal amidation

<400> 411

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

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

Ser Gly Ala Pro Pro Pro Ser Lys
35 40

<210> 412
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<223> mt-384

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Acylated with a C16 fatty acyl group via gamma-Glu-gamma-Glu spacer

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (39)..(39)
<223> C-terminal amidation

<400> 412

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

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

Ser Gly Ala Pro Pro Pro Ser
        35

<210> 413
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<223> mt-384

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Acylated with a C16 fatty acyl group via dipeptide spacer

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa is AIB

<220>
<221> MISC_FEATURE
<222> (39)..(39)
<223> C-terminal amidation

<400> 413

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

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

Ser Gly Ala Pro Pro Pro Ser
        35