<110> HANMI PHARM. CO., LTD.

<120> Long acting conjugate of Trigonal glucagon/GLP-1/GIP receptor agonist

<130> OPA16304-PCT

<150> KR 10-2015-0191082
<151> 2015-12-31

<150> KR 10-2016-0163737
<151> 2016-12-02

<160> 118

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<223> Xaa is aminoisobutyric acid (Aib)

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

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

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<222> (2)
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<400> 2
His Xaa Gln Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Asp Gly
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Gln Ala Gln Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Cys
             20   25   30

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<223> Xaa is aminoisobutyric acid (Aib)

<400> 3
His Xaa Gln Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Leu Gly
  1   5   10   15

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

Ser Ser Gly Ala Pro Pro Pro Ser Cys
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<223> Xaa is aminoisobutyric acid (Aib)

<400> 4
His Xaa Gln Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Leu Gly
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Gln Gln Gln Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Cys
             20   25   30

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<400> 5
His Xaa Gln Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Leu Gly
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Gln Gln Gln Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Gly Gly Pro
             20   25   30

Ser Ser Gly Ala Pro Pro Pro Ser Cys
         35   40

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<223> Xaa is aminoisobutyric acid (Aib)

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

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

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<400> 7
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1 5 10 15

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

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<222> (2)
<223> Xaa is aminoisobutyric acid (Aib)

<400> 8
His Xaa Gln Gly Thr Phe Thr Ser Asp Val Ser Lys Tyr Leu Asp Gly

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Gln Ala Ala Gln Glu Phe Val Ala Trp Leu Leu Lys Gly Cys
             20                  25                  30
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<223> Xaa is aminoisobutyric acid (Aib)

<400> 9

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

Gln Ala Ala Gln Glu Phe Val Ala Trp Leu Leu Ala Gly Cys
             20                  25                  30
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<223> Xaa is aminoisobutyric acid (Aib)

<400> 10

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

Gln Ala Ala Gln Glu Phe Val Ala Trp Leu Leu Ala Gly Gly Gly Pro
             20                  25                  30
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Ser Ser Gly Ala Pro Pro Pro Ser Cys
35 40

<210> 11
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<222> (1)
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<400> 11
Xaa Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Tyr Leu Asp Ser
1 5 10 15

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

Ser Gly Ala Pro Pro Pro Ser His Gly
35 40

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<220>
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<222> (1)
<223> Xaa is 4-imidazoacetyl (CA)

<400> 12
Xaa Gly Glu Gly Thr Phe Ile Ser Asp Leu Ser Lys Tyr Met Asp Glu
1 5 10 15

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

Ser Gly Ala Pro Pro Pro Ser His Gly
        35   40

<210> 13
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<220>
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<222> (1)
<223> Xaa is 4-imidazoacetyl (CA)

<400> 13
Xaa Gly Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Gln Leu Asp Glu
  1   5   10   15

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

Ser Gly Ala Pro Pro Pro Ser His Gly
        35   40

<210> 14
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<220>
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<220>
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<222> (1)
<223> Xaa is 4-imidazoacetyl (CA)

<400> 14
Xaa Gly Gln Gly Thr Phe Thr Ser Asp Tyr Ser Ile Gln Leu Asp Glu

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  1               5                  10                  15

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

Ser Gly Ala Pro Pro Pro Ser His Gly
         35                  40


<210>    15
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<223>    Trigonal agonist


<220>
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<222>    (1)
<223>    Xaa is 4-imidazoacetyl (CA)


<400>    15
Xaa Gly Gln Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Asp Glu
  1               5                  10                  15

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

Ser Gly Ala Pro Pro Pro Ser His Gly
         35                  40


<210>    16
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<223>    Trigonal agonist


<220>
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<222>    (1)
<223>    Xaa is 4-imidazoacetyl (CA)
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<400> 16
Xaa Gly Gln Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Asp Ser
1 5 10 15

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

Ser Gly Ala Pro Pro Pro Ser His Gly
35 40

<210> 17
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<222> (1)
<223> Xaa is 4-imidazoacetyl (CA)

<400> 17
Xaa Gly Gln Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Asp Glu
1 5 10 15

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

Ser Gly Ala Pro Pro Pro Ser His Gly
35 40

<210> 18
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<223> Xaa is 4-imidazoacetyl (CA)

<400> 18
Xaa Gly Gln Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Asp Ser
1 5 10 15

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

Ser Gly Ala Pro Pro Pro Ser His Gly
35 40

<210> 19
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<222> (1)
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<400> 19
Xaa Gly Gln Gly Thr Phe Thr Ser Asp Leu Ser Ile Gln Tyr Asp Ser
1 5 10 15

Glu His Gln Arg Asp Phe Ile Glu Trp Leu Lys Asp Thr Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser His Gly
35 40

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<222> (1)
<223> Xaa is 4-imidazoacetyl (CA)

<400> 20
Xaa Gly Gln Gly Thr Phe Thr Ser Asp Leu Ser Ile Gln Tyr Glu Glu
  1   5   10   15

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

Ser Gly Ala Pro Pro Pro Ser His Gly
         35   40

<210> 21
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<220>
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<222> (16)..(20)
<223> amino acids at positions 16 and 20 form a ring

<400> 21
Tyr Xaa Gln Gly Thr Phe Thr Ser Asp Tyr Ser Lys Tyr Leu Asp Glu
  1   5   10   15

Cys Arg Ala Lys Glu Phe Val Gln Trp Leu Leu Asp His His Pro Ser
             20   25   30

Ser Gly Gln Pro Pro Pro Ser
         35

<210> 22
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<220>
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<222> (16)..(20)
<223> amino acids at positions 16 and 20 form a ring

<400> 22
Tyr Xaa Gln Gly Thr Phe Thr Ser Asp Tyr Ser Lys Cys Leu Asp Glu
  1   5   10   15

Lys Arg Ala Lys Glu Phe Val Gln Trp Leu Leu Asp His His Pro Ser
             20   25   30

Ser Gly Gln Pro Pro Pro Ser
         35

<210> 23
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<223> amino acids at positions 16 and 20 form a ring

<400> 23
Tyr Xaa Gln Gly Thr Phe Thr Ser Asp Tyr Ser Lys Tyr Leu Asp Glu
1 5 10 15

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

Lys Asn Asp Trp Lys His Asn Ile Thr
35 40

<210> 24
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<223> amino acids at positions 16 and 20 form a ring

<400> 24
Tyr Xaa Gln Gly Thr Phe Thr Ser Asp Tyr Ser Lys Tyr Leu Asp Glu
1 5 10 15

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 25
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<223> Xaa is aminoisobutyric acid (Aib)

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His Xaa Gln Gly Thr Phe Thr Ser Asp Cys 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

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<223> Trigonal agonist

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<222> (2)
<223> Xaa is aminoisobutyric acid (Aib)

<400> 26
His Xaa Gln Gly Thr Phe Thr Ser Asp Cys Ser Lys Tyr Leu Asp Ser
  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> 27
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<220>
<223> Trigonal agonist

<220>
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<222> (2)
<223> Xaa is aminoisobutyric acid (Aib)

<400> 27
His Xaa Gln Gly Thr Phe Thr Ser Asp Tyr Ser Lys Tyr Leu Asp Glu
  1   5   10   15

Arg Ala Cys Gln Asp Phe Val Gln Trp Leu Leu Asp Gln Gly Gly Pro
             20   25   30

Ser Ser Gly Ala Pro Pro Pro Ser
         35   40

<210> 28
<211> 41
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> (2)
<223> Xaa is aminoisobutyric acid (Aib)

<400> 28
His Xaa Gln Gly Thr Phe Thr Ser Asp Tyr Ser Lys Tyr Leu Asp Glu
  1   5   10   15

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

Lys Asn Asp Trp Lys His Asn Ile Thr
         35   40

<210> 29
<211> 30
<212> PRT

<213> Artificial Sequence

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<223> Xaa is aminoisobutyric acid (Aib)

<220>
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<222> (16)..(20)
<223> amino acids at positions 16 and 20 form a ring

<400> 29
His Xaa Gln Gly Thr Phe Thr Ser Asp Tyr Ser Lys Tyr Leu Asp Glu
  1   5   10   15

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

<210> 30
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<220>
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<222> (16)..(20)
<223> amino acids at positions 16 and 20 form a ring

<400> 30
His Xaa Gln Gly Thr Phe Thr Ser Asp Tyr Ser Lys Tyr Leu Asp Glu
  1   5   10   15

Lys Ala Gln Lys Glu Phe Val Gln Trp Leu Leu Asp Thr Cys
            20   25   30

<210> 31
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<220>
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<222> (16)..(20)
<223> amino acids at positions 16 and 20 form a ring

<400> 31
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  1   5   10   15

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

<210> 32
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<220>
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<220>
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<223> Xaa is aminoisobutyric acid (Aib)

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<223> amino acids at positions 16 and 20 form a ring

<400> 32
His Xaa Gln Gly Thr Phe Thr Ser Asp Tyr Ser Lys Tyr Leu Asp Glu
  1   5   10   15

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

Ser Gly Ala Pro Pro Pro Ser
         35

<210> 33
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<220>
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<220>
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<222> (16)..(20)
<223> amino acids at positions 16 and 20 form a ring

<400> 33
His Xaa Gln Gly Thr Phe Thr 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 Lys Cys
             20   25   30

<210> 34
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<220>
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<220>
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<222> (16)..(20)
<223> amino acids at positions 16 and 20 form a ring

<400> 34
His Xaa Gln Gly Thr Phe Thr Ser Asp Tyr Ser Lys Tyr Leu Asp Glu
1 5 10 15

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

<210> 35
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<212> PRT
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<220>
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<220>
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<220>
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<222> (16)..(20)
<223> amino acids at positions 16 and 20 form a ring

<400> 35

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

Ile His Gln Lys Asp Phe Val Asn Trp Leu Leu Asn Thr Lys Cys
20 25 30

<210> 36
<211> 40
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<220>
<223> Trigonal agonist

<220>
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<222> (2)
<223> Xaa is aminoisobutyric acid (Aib)

<220>
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<222> (16)..(20)
<223> amino acids at positions 16 and 20 form a ring

<400> 36
His Xaa Gln Gly Thr Phe Thr Ser Asp Tyr Ser Lys Tyr Leu Cys Glu
1 5 10 15

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

Ser Gly Ala Pro Pro Pro Ser Gly
35 40

<210> 37
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<222> (2)
<223> Xaa is aminoisobutyric acid (Aib)

<220>
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<222> (16)..(20)
<223> amino acids at positions 16 and 20 form a ring

<400> 37
His Xaa Gln Gly Thr Phe Thr Ser Asp Tyr Ser Lys Tyr Leu Asp Glu
  1   5   10   15

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

Ser Gly Ala Pro Pro Pro Ser Gly
         35   40

<210> 38
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<223> Xaa is 4-imidazoacetyl (CA)

<220>
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<222> (2)
<223> Xaa is aminoisobutyric acid (Aib)

<400> 38
Xaa Xaa Gln Gly Thr Phe Thr Ser Asp Lys Ser Ser 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 Ser
35 40

<210> 39
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<220>
<223> Trigonal agonist

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

<400> 39
His Xaa Gln Gly Thr Phe Thr Ser Asp Tyr Ser Lys Tyr Leu Asp Gly
1 5 10 15

Gln His Ala Gln Cys Phe Val Ala Trp Leu Leu Ala Gly Gly Gly Pro
20 25 30

Ser Ser Gly Ala Pro Pro Pro Ser
35 40

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

<220>
<223> Trigonal agonist

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

<400> 40
His Xaa Gln Gly Thr Phe Thr Ser Asp Lys Ser Lys Tyr Leu Asp Glu
1 5 10 15

Arg Ala Cys 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> 41
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<212> PRT
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<220>
<223> Trigonal agonist

<220>
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<222> (2)
<223> Xaa is aminoisobutyric acid (Aib)

<400> 41
His Xaa Gln Gly Thr Phe Thr Ser Asp Lys Ser Lys Tyr Leu Asp Glu
1 5 10 15

Cys 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> 42
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<220>
<223> Trigonal agonist

<220>
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<223> Xaa is aminoisobutyric acid (Aib)

<220>
<221> MISC_FEATURE

<222> (16)..(20)
<223> amino acids at positions 16 and 20 form a ring

<400> 42
Tyr Xaa Gln Gly Thr Phe Thr Ser Asp Tyr Ser Lys Tyr Leu Asp Glu
  1   5   10   15

Lys Arg Ala Lys Glu Phe Val Gln Trp Leu Leu Asp His His Pro Ser
             20   25   30

Ser Gly Gln Pro Pro Pro Ser Cys
         35   40

<210> 43
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<220>
<223> Trigonal agonist

<220>
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<222> (2)
<223> Xaa is aminoisobutyric acid (Aib)

<220>
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<222> (16)..(20)
<223> amino acids at positions 16 and 20 form a ring

<400> 43
Tyr Xaa Gln Gly Thr Phe Thr Ser Asp Tyr Ser Lys Tyr Leu Asp Glu
  1   5   10   15

Lys Arg Ala Lys Glu Phe Val Gln Trp Leu Leu Asp His His Cys Ser
             20   25   30

Ser Gly Gln Pro Pro Pro Ser
         35

<210> 44
<211> 39
<212> PRT

<213> Artificial Sequence

<220>
<223> Trigonal agonist

<400> 44
His Gly Gln Gly Thr Phe Thr Ser Asp Cys Ser Lys Gln Leu Asp Gly
  1   5   10   15

Gln Ala Ala Gln Glu Phe Val Ala 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> Trigonal agonist

<400> 45
His Gly Gln Gly Thr Phe Thr Ser Asp Cys Ser Lys Tyr Met Asp Gly
  1   5   10   15

Gln Ala Ala Gln Asp Phe Val Ala 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> Trigonal agonist

<400> 46
His Gly Gln Gly Thr Phe Thr Ser Asp Cys Ser Lys Tyr Leu Asp Glu
  1   5   10   15

Gln His Ala Gln Glu Phe Val Ala 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>   Trigonal agonist

<400>   47
His Gly Gln Gly Thr Phe Thr Ser Asp Cys Ser Lys Tyr Leu Asp Gly
  1   5   10   15

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

Ser Gly Ala Pro Pro Pro Ser
         35

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<212>   PRT
<213>   Artificial Sequence

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<400>   48
His Gly Gln Gly Thr Phe Thr Ser Asp Cys Ser Lys Tyr Leu Asp Gly
  1   5   10   15

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

Ser Gly Ala Pro Pro Pro Ser
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<210>   49
<211>   30
<212>   PRT

<213> Artificial Sequence

<220>
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<220>
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<223> amino acids at positions 16 and 20 form a ring

<400> 49
Xaa Xaa Gln Gly Thr Phe Thr Ser Asp Tyr Ser Ile Cys Met Asp Glu
  1   5   10   15

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

<210> 50
<211> 40
<212> PRT
<213> Artificial Sequence

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

<223> amino acids at positions 16 and 20 form a ring

<400> 50
His Xaa Gln Gly Thr Phe Thr Ser Asp Tyr Ser Lys Tyr Leu Asp Glu
  1   5   10   15

Lys Arg Ala Lys Glu Phe Val Gln Trp Leu Leu Asp His His Pro Ser
             20   25   30

Ser Gly Gln Pro Pro Pro Ser Cys
         35   40

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

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<220>
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<222> (16)..(20)
<223> amino acids at positions 16 and 20 form a ring

<400> 51
His Xaa Gln Gly Thr Phe Thr Ser Asp Tyr Ser Lys Tyr Leu Asp Glu
  1   5   10   15

Lys Arg Gln Lys Glu Phe Val Gln Trp Leu Leu Asn Thr Cys
             20   25   30

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

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

Lys Arg Gln Lys Glu Phe Val Gln Trp Leu Leu Asp Thr Cys
             20   25   30

<210> 53
<211> 30
<212> PRT
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<400> 53
His Xaa Glu Gly Thr Phe Thr 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 Cys
             20   25   30

<210>   54
<211>   30
<212>   PRT
<213>   Artificial Sequence

<220>
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<223>   amino acids at positions 16 and 20 form a ring

<400>   54
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  1   5   10   15

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

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

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<223>   amino acids at positions 16 and 20 form a ring

<400> 55
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1 5 10 15

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

<210> 56
<211> 30
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<400> 56
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1 5 10 15

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

<210> 57
<211> 30
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  1   5   10   15

Ile His Gln Lys Asp Phe Val Asn Trp Leu Leu Asn Thr Cys
             20   25   30

<210> 58
<211> 31
<212> PRT
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<400> 58
His Xaa Gln Gly Thr Phe Thr Ser Asp Tyr Ser Lys Tyr Leu Asp Glu
  1   5   10   15

Lys Arg Gln Lys Glu Phe Val Gln Trp Leu Leu Asn Thr Lys Cys
             20   25   30

<210> 59
<211> 30

<212> PRT
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  1   5   10   15

Lys His Gln Lys Asp Phe Val Asn Trp Leu Leu Asn Thr Lys
             20   25   30

<210> 60
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<212> PRT
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Xaa Xaa Gln Gly Thr Phe Thr Ser Asp Tyr Ser Ile Ala Met Asp Glu
  1   5   10   15

Lys His Cys Lys Asp Phe Val Asn Trp Leu Leu Asn Thr Lys
             20   25   30

<210> 61
<211> 30
<212> PRT
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  1   5   10   15

Ile Ala Cys Lys Asp Phe Val Asn Trp Leu Leu Asn Thr Lys

20 25 30

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<400> 62
Xaa 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

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             20   25   30

Ser Gly Ala Pro Pro Pro Ser
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  1   5   10   15

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

Ser Gly Gln Pro Pro Pro Ser
         35

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  1   5   10   15

Lys Arg Ala Lys Glu Phe Val Gln Trp Leu Leu Asp His His Pro Ser
             20   25   30

Ser Gly Gln Pro Pro Pro Ser
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20 25 30

Ser Gly Gln Pro Pro Pro Ser
35

<210> 67
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1 5 10 15

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20 25 30

Ser Gly Gln Pro Pro Pro Ser
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<210> 68
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Lys Ala Ala Lys Glu Phe Val Gln Trp Leu Leu Asp His His Pro Ser
             20   25   30

Ser Gly Gln Pro Pro Pro Ser
         35

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Arg Ala Ala Lys Glu Phe Val Gln Trp Leu Leu Asp His His Pro Ser
             20                  25                  30

Ser Gly Gln Pro Pro Pro Ser
         35


<210>    70
<211>    39
<212>    PRT
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<220>
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<400>    70
Tyr Xaa Gln Gly Thr Phe Thr Ser Asp Tyr Ser Lys Cys Leu Asp Glu
  1               5                  10                  15

Lys Arg Ala Lys Asp Phe Val Gln Trp Leu Leu Asp His His Pro Ser
             20                  25                  30

Ser Gly Gln Pro Pro Pro Ser
         35


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

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<400> 71
Tyr Xaa Gln Gly Thr Phe Thr Ser Asp Tyr Ser Lys Tyr Leu Asp Glu
  1   5   10   15

Arg Ala Cys Lys Asp Phe Val Gln Trp Leu Leu Asp His His Pro Ser
             20   25   30

Ser Gly Gln Pro Pro Pro Ser
         35

<210> 72
<211> 39
<212> PRT
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Tyr Xaa Gln Gly Thr Phe Thr Ser Asp Cys Ser Lys Tyr Leu Asp Glu
  1   5   10   15

Arg Ala Ala Lys Asp Phe Val Gln Trp Leu Leu Asp His His Pro Ser
             20   25   30

Ser Gly Gln Pro Pro Pro Ser
35

<210> 73
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<212> PRT
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<400> 73
Xaa Xaa Gln Gly Thr Phe Thr Ser Asp Tyr Ser Lys Tyr Leu Asp Glu
1 5 10 15

Cys Arg Ala Lys Glu Phe Val Gln Trp Leu Leu Asp His His Pro Ser
20 25 30

Ser Gly Gln Pro Pro Pro Ser
35

<210> 74
<211> 39
<212> PRT
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<400> 74
Xaa Xaa Gln Gly Thr Phe Thr Ser Asp Tyr Ser Lys Cys Leu Asp Glu
  1   5   10   15

Lys Arg Ala Lys Glu Phe Val Gln Trp Leu Leu Asp His His Pro Ser
             20   25   30

Ser Gly Gln Pro Pro Pro Ser
         35

<210> 75
<211> 40
<212> PRT
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<400> 75
Tyr Xaa Gln Gly Thr Phe Thr Ser Asp Tyr Ser Lys Tyr Leu Asp Glu
1 5 10 15

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

Ser Gly Gln Pro Pro Pro Ser Cys
35 40

<210> 76
<211> 40
<212> PRT
<213> Artificial Sequence

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<400> 76
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1 5 10 15

Lys Arg Ala Lys Asp Phe Val Gln Trp Leu Leu Asp His His Pro Ser
20 25 30

Ser Gly Gln Pro Pro Pro Ser Cys
35 40

<210> 77
<211> 40
<212> PRT
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<400> 77
Tyr Xaa Gln Gly Thr Phe Thr Ser Asp Tyr Ser Lys Tyr Leu Asp Glu
  1   5   10   15

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

Ser Gly Gln Pro Pro Pro Ser Cys
         35   40

<210> 78
<211> 31
<212> PRT
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<400> 78
His Xaa Gln Gly Thr Phe Thr Ser Asp Tyr Ser Lys Tyr Leu Asp Glu

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  1               5                  10                  15

Lys Arg Gln Lys Glu Phe Val Gln Trp Leu Leu Asp Thr Lys Cys
             20                  25                  30
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<210> 79
<211> 31
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<220>
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<220>
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<223> amino acids at positions 16 and 20 form a ring

<400> 79

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His Xaa Glu Gly Thr Phe Thr 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 Lys Cys
             20                  25                  30
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<210> 80
<211> 31
<212> PRT
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<400> 80
His Xaa Glu Gly Thr Phe Thr Ser Asp Tyr Ser Ile Ala Met Asp Glu
  1   5   10   15

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

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<211> 30
<212> PRT
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<400> 81
Xaa Xaa Gln Gly Thr Phe Thr Ser Asp Tyr Ser Lys Tyr Leu Asp Glu
  1   5   10   15

Lys Arg Gln Lys Glu Phe Val Gln Trp Leu Leu Asn Thr Cys
            20   25   30

<210> 82
<211> 30
<212> PRT
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<223> amino acids at positions 16 and 20 form a ring

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

Lys Arg Gln Lys Glu Phe Val Gln Trp Leu Leu Asp Thr Cys
            20   25   30

<210> 83
<211> 30
<212> PRT
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<220>
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<400> 83
Xaa Xaa Glu Gly Thr Phe Thr 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 Cys
            20   25   30

<210> 84
<211> 30
<212> PRT
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<220>
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1 5 10 15

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

<210> 85
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<220>
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<400> 85
Xaa Xaa Gln Gly Thr Phe Thr 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 Cys
20 25 30

<210> 86
<211> 30
<212> PRT
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<400> 86
Xaa Xaa Gln Gly Thr Phe Thr Ser Asp Tyr Ser Lys Tyr Leu Asp Glu
  1   5   10   15

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

<210> 87
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Trigonal agonist

<220>
<221> MISC_FEATURE
<222> (1)
<223> Xaa is 4-imidazoacetyl (CA)

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

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> amino acids at positions 16 and 20 form a ring

<400> 87
Xaa Xaa Gln Gly Thr Phe Thr Ser Asp Tyr Ser Ile Ala Met Asp Glu
  1   5   10   15

Ile His Gln Lys Asp Phe Val Asn Trp Leu Leu Asn Thr Cys
             20   25   30

<210> 88
<211> 31
<212> PRT
<213> Artificial Sequence

<220>
<223> Trigonal agonist

<220>
<221> MISC_FEATURE
<222> (1)
<223> Xaa is 4-imidazoacetyl (CA)

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

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> amino acids at positions 16 and 20 form a ring

<400> 88
Xaa Xaa Gln Gly Thr Phe Thr Ser Asp Tyr Ser Lys Tyr Leu Asp Glu
  1   5   10   15

Lys Arg Gln Lys Glu Phe Val Gln Trp Leu Leu Asn Thr Lys Cys
             20   25   30

<210>   89
<211>   31
<212>   PRT
<213>   Artificial Sequence

<220>
<223>   Trigonal agonist

<220>
<221>   MISC_FEATURE
<222>   (1)
<223>   Xaa is 4-imidazoacetyl (CA)

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

<220>
<221>   MISC_FEATURE
<222>   (16)..(20)
<223>   amino acids at positions 16 and 20 form a ring

<400>   89
Xaa Xaa Gln Gly Thr Phe Thr Ser Asp Tyr Ser Lys Tyr Leu Asp Glu
  1   5   10   15

Lys Arg Gln Lys Glu Phe Val Gln Trp Leu Leu Asp Thr Lys Cys
             20   25   30

<210>   90
<211>   31
<212>   PRT
<213>   Artificial Sequence

<220>
<223>   Trigonal agonist

<220>
<221>   MISC_FEATURE

<222> (1)
<223> Xaa is 4-imidazoacetyl (CA)

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

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> amino acids at positions 16 and 20 form a ring

<400> 90
Xaa Xaa Glu Gly Thr Phe Thr 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 Lys Cys
            20   25   30

<210> 91
<211> 31
<212> PRT
<213> Artificial Sequence

<220>
<223> Trigonal agonist

<220>
<221> MISC_FEATURE
<222> (1)
<223> Xaa is 4-imidazoacetyl (CA)

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

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

<223> amino acids at positions 16 and 20 form a ring

<400> 91
Xaa Xaa Glu Gly Thr Phe Thr Ser Asp Tyr Ser Ile Ala Met Asp Glu
  1   5   10   15

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

<210> 92
<211> 31
<212> PRT
<213> Artificial Sequence

<220>
<223> Trigonal agonist

<220>
<221> MISC_FEATURE
<222> (1)
<223> Xaa is 4-imidazoacetyl (CA)

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

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> amino acids at positions 16 and 20 form a ring

<400> 92
Xaa Xaa Gln Gly Thr Phe Thr 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 Lys Cys
             20   25   30

<210> 93
<211> 31
<212> PRT
<213> Artificial Sequence

<220>
<223> Trigonal agonist

<220>
<221> MISC_FEATURE
<222> (1)
<223> Xaa is 4-imidazoacetyl (CA)

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

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> amino acids at positions 16 and 20 form a ring

<400> 93
Xaa Xaa Gln Gly Thr Phe Thr Ser Asp Tyr Ser Lys Tyr Leu Asp Glu
  1   5   10   15

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

<210> 94
<211> 31
<212> PRT
<213> Artificial Sequence

<220>
<223> Trigonal agonist

<220>
<221> MISC_FEATURE
<222> (1)
<223> Xaa is 4-imidazoacetyl (CA)

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

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> amino acids at positions 16 and 20 form a ring

<400> 94
Xaa Xaa Gln Gly Thr Phe Thr Ser Asp Tyr Ser Ile Ala Met Asp Glu
  1   5   10   15

Ile His Gln Lys Asp Phe Val Asn Trp Leu Leu Asn Thr Lys Cys
             20   25   30

<210> 95
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Trigonal agonist

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

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> amino acids at positions 16 and 20 form a ring

<400> 95
Tyr Xaa Gln Gly Thr Phe Thr Ser Asp Tyr Ser Lys Tyr Leu Asp Glu
  1   5   10   15

Lys Arg Ala Lys Glu Phe Val Gln Trp Leu Leu Cys His His Pro Ser

20 25 30

Ser Gly Gln Pro Pro Pro Ser
35

<210> 96
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Trigonal agonist

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

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> amino acids at positions 16 and 20 form a ring

<400> 96
Tyr Xaa Gln Gly Thr Phe Thr Ser Asp Tyr Ser Lys Tyr Leu Asp Glu
1 5 10 15

Lys Arg Ala Lys Glu Phe Val Gln Trp Leu Leu Asp His Cys Pro Ser
20 25 30

Ser Gly Gln Pro Pro Pro Ser
35

<210> 97
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Trigonal agonist

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

<223> Xaa is aminoisobutyric acid (Aib)

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> amino acids at positions 16 and 20 form a ring

<400> 97
Tyr Xaa Gln Gly Thr Phe Thr Ser Asp Tyr Ser Lys Tyr Leu Asp Glu
 1   5   10   15

Lys Arg Ala Lys Glu Phe Val Gln Trp Leu Leu Asp Cys His Pro Ser
            20   25   30

Ser Gly Gln Pro Pro Pro Ser
        35

<210> 98
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Trigonal agonist

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

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> amino acids at positions 16 and 20 form a ring

<400> 98
Tyr Xaa Gln Gly Thr Phe Thr Ser Asp Tyr Ser Lys Ala Leu Asp Glu
 1   5   10   15

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

Ser Gly Gln Pro Pro Pro Ser Cys
        35   40

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

<220>
<223>   Trigonal agonist

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

<220>
<221>   MISC_FEATURE
<222>   (16)..(20)
<223>   amino acids at positions 16 and 20 form a ring

<400>   99
Tyr Xaa Gln Gly Thr Phe Thr Ser Asp Tyr Ser Lys Ala Leu Asp Glu
  1   5   10   15

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

Ser Gly Gln Pro Pro Pro Ser Cys
         35   40

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

<220>
<223>   Trigonal agonist

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

<220>

<221> MISC_FEATURE
<222> (16)..(20)
<223> amino acids at positions 16 and 20 form a ring

<400> 100
Tyr Xaa Gln Gly Thr Phe Thr Ser Asp Tyr Ser Lys Ala Leu Asp Glu
  1   5   10   15

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

Ser Gly Gln Pro Pro Pro Ser Cys
         35   40

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

<220>
<223> Trigonal agonist

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

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> amino acids at positions 16 and 20 form a ring

<400> 101
Tyr Xaa Gln Gly Thr Phe Thr Ser Asp Tyr Ser Lys Ala Leu Asp Glu
  1   5   10   15

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

Ser Gly Gln Pro Pro Pro Ser Cys
         35   40

<210> 102
<211> 40

<212> PRT
<213> Artificial Sequence

<220>
<223> Trigonal agonist

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

<220>
<221> MISC_FEATURE
<222> (16)..(20)
<223> amino acids at positions 16 and 20 form a ring

<400> 102
Tyr Xaa Gln Gly Thr Phe Thr Ser Asp Tyr Ser Lys Ala Leu Asp Glu
  1   5   10   15

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

Ser Gly Gln Pro Pro Pro Ser Cys
         35   40

<210> 103
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> General Formula 1

<220>
<221> MISC_FEATURE
<222> (1)
<223> Xaa is His (H), 4-imidazoacetyl (CA), or Tyr (Y)

<220>
<221> MISC_FEATURE
<222> (2)
<223> Xaa is Gly (G), alpha-methyl-glutamic acid, or Aib
       (aminoisobutyric acid)

<220>
<221> MISC_FEATURE
<222> (3)
<223> Xaa is Glu (E) or Gln (Q)

<220>
<221> MISC_FEATURE
<222> (7)
<223> Xaa is Thr (T) or Ile (I)

<220>
<221> MISC_FEATURE
<222> (10)
<223> Xaa is Leu (L), Tyr (Y), Lys (K), Cys (C), or Val (V)

<220>
<221> MISC_FEATURE
<222> (12)
<223> Xaa is Lys (K), Ser (S), or Ile (I)

<220>
<221> MISC_FEATURE
<222> (13)
<223> Xaa is Gln (Q), Tyr (Y), Ala (A), or Cys (C)

<220>
<221> MISC_FEATURE
<222> (14)
<223> Xaa is Leu (L), Met (M), or Tyr (Y)

<220>
<221> MISC_FEATURE
<222> (15)
<223> Xaa is Cys (C), Asp (D), Glu (E), or Leu (L)

<220>
<221> MISC_FEATURE
<222> (16)
<223> Xaa is Gly (G), Glu (E), or Ser (S)

<220>
<221> MISC_FEATURE
<222> (17)
<223> Xaa is Gln (Q), Arg (R), Ile (I), Glu (E), Cys (C), or Lys (K)

<220>
<221> MISC_FEATURE
<222> (18)
<223> Xaa is Ala (A), Gln (Q), Arg (R), or His (H)

<220>
<221> MISC_FEATURE
<222> (19)
<223> Xaa is Ala (A), Gln (Q), Cys (C), or Val (V)

<220>
<221> MISC_FEATURE
<222> (20)
<223> Xaa is Lys (K), Gln (Q), or Arg (R)

<220>
<221> MISC_FEATURE
<222> (21)
<223> Xaa is Glu (E), Gln (Q), Leu (L), Cys (C), or Asp (D)

<220>
<221> MISC_FEATURE
<222> (23)
<223> Xaa is Ile (I) or Val (V)

<220>
<221> MISC_FEATURE
<222> (24)
<223> Xaa is Ala (A), Gln (Q), Cys (C), Asn (N), Asp (D), or Glu (E)

<220>
<221> MISC_FEATURE
<222> (27)
<223> Xaa is Val (V), Leu (L), Lys (K), or Met (M)

<220>
<221> MISC_FEATURE

<222> (28)
<223> Xaa is Cys (C), Lys (K), Ala (A), Asn (N), or Asp (D)

<220>
<221> MISC_FEATURE
<222> (29)
<223> Xaa is Cys (C), Gly (G), Gln (Q), Thr (T), Glu (E), or His (H)

<220>
<221> MISC_FEATURE
<222> (30)
<223> Xaa is Cys (C), Gly (G), Lys (K), or His (H), or is absent; and Xaa can be further linked to R1, wherein R1 is Cys (C), GKKNDWKHNIT, m-SSGAPPPS-n, or m-SSGQPPPS-n, or is absent, and wherein m is -Cys-, -Pro-, or -Gly-Pro-, and n is -Cys-, -Gly-, -Ser-, or -His-Gly-, or is absent

<400> 103
Xaa Xaa Xaa Gly Thr Phe Xaa Ser Asp Xaa Ser Xaa Xaa Xaa Xaa Xaa
1 5 10 15

Xaa Xaa Xaa Xaa Xaa Phe Xaa Xaa Trp Leu Xaa Xaa Xaa Xaa
20 25 30

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

<220>
<223> General Formula 2

<220>
<221> MISC_FEATURE
<222> (1)
<223> Xaa is His (H), 4-imidazoacetyl (CA), or Tyr (Y)

<220>
<221> MISC_FEATURE
<222> (2)
<223> Xaa is Gly (G), alpha-methyl-glutamic acid, or Aib (aminoisobutyric acid)

<220>
<221> MISC_FEATURE
<222> (10)
<223> Xaa is Tyr (Y) or Cys (C)

<220>
<221> MISC_FEATURE
<222> (13)
<223> Xaa is Gln (Q), Tyr (Y), Ala (A), or Cys (C)

<220>
<221> MISC_FEATURE
<222> (14)
<223> Xaa is Leu (L), Met (M), or Tyr (Y)

<220>
<221> MISC_FEATURE
<222> (15)
<223> Xaa is Asp (D), Glu (E), or Leu (L)

<220>
<221> MISC_FEATURE
<222> (16)
<223> Xaa is Gly (G), Glu (E), or Ser (S)

<220>
<221> MISC_FEATURE
<222> (17)
<223> Xaa is Gln (Q), Arg (R), Ile (I), Glu (E), Cys (C), or Lys (K)

<220>
<221> MISC_FEATURE
<222> (18)
<223> Xaa is Ala (A), Gln (Q), Arg (R), or His (H)

<220>
<221> MISC_FEATURE
<222> (19)
<223> Xaa is Ala (A), Gln (Q), Cys (C), or Val (V)

<220>
<221> MISC_FEATURE

<222> (20)
<223> Xaa is Lys (K), Gln (Q), or Arg (R)

<220>
<221> MISC_FEATURE
<222> (21)
<223> Xaa is Glu (E), Gln (Q), Leu (L), Cys (C), or Asp (D)

<220>
<221> MISC_FEATURE
<222> (23)
<223> Xaa is Ile (I) or Val (V)

<220>
<221> MISC_FEATURE
<222> (24)
<223> Xaa is Ala (A), Gln (Q), Cys (C), Asn (N), or Glu (E)

<220>
<221> MISC_FEATURE
<222> (28)
<223> Xaa is Cys (C), Lys (K), Asn (N), or Asp (D)

<220>
<221> MISC_FEATURE
<222> (29)
<223> Xaa is Cys (C), Gly (G), Gln (Q), or His (H)

<220>
<221> MISC_FEATURE
<222> (30)
<223> Xaa is Cys (C), Gly (G), Lys (K), or His (H)

<220>
<221> MISC_FEATURE
<222> (31)
<223> Xaa is Pro (P) or Cys (C)

<220>
<221> MISC_FEATURE
<222> (40)
<223> Xaa is Cys (C), or is absent

<400> 104
Xaa Xaa Gln Gly Thr Phe Thr Ser Asp Xaa Ser Lys Xaa Xaa Xaa Xaa
1 5 10 15

Xaa Xaa Xaa Xaa Xaa Phe Xaa Xaa Trp Leu Leu Xaa Xaa Xaa Xaa Ser
20 25 30

Ser Gly Gln Pro Pro Pro Ser Xaa
35 40

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

<220>
<223> General Formula 3

<220>
<221> MISC_FEATURE
<222> (1)
<223> Xaa is His (H) or Tyr (Y)

<220>
<221> MISC_FEATURE
<222> (2)
<223> Xaa is alpha-methyl-glutamic acid, or Aib (aminoisobutyric acid)

<220>
<221> MISC_FEATURE
<222> (13)
<223> Xaa is Tyr (Y), Ala (A), or Cys (C)

<220>
<221> MISC_FEATURE
<222> (17)
<223> Xaa is Arg (R), Cys (C), or Lys (K)

<220>
<221> MISC_FEATURE
<222> (18)
<223> Xaa is Ala (A) or Arg (R)

<220>
<221> MISC_FEATURE
<222> (19)
<223> Xaa is Ala (A) or Cys (C)

<220>
<221> MISC_FEATURE
<222> (21)
<223> Xaa is Glu (E) or Asp (D)

<220>
<221> MISC_FEATURE
<222> (24)
<223> Xaa is Gln (Q) or Asn (N)

<220>
<221> MISC_FEATURE
<222> (28)
<223> Xaa is Cys (C) or Asp (D)

<220>
<221> MISC_FEATURE
<222> (29)
<223> Xaa is Cys (C), Gln (Q), or His (H)

<220>
<221> MISC_FEATURE
<222> (30)
<223> Xaa is Cys (C) or His (H)

<220>
<221> MISC_FEATURE
<222> (31)
<223> Xaa is Pro (P) or Cys (C)

<220>
<221> MISC_FEATURE
<222> (40)
<223> Xaa is Cys (C), or is absent

<400> 105
Xaa Xaa Gln Gly Thr Phe Thr Ser Asp Tyr Ser Lys Xaa Leu Asp Glu
1 5 10 15

Xaa Xaa Xaa Lys Xaa Phe Val Xaa Trp Leu Leu Xaa Xaa Xaa Xaa Ser
20 25 30

Ser Gly Gln Pro Pro Pro Ser Xaa
35 40

<210> 106
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> R1

<400> 106
Gly Lys Lys Asn Asp Trp Lys His Asn Ile Thr
1 5 10

<210> 107
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> R1

<400> 107
Ser Ser Gly Ala Pro Pro Pro Ser
1 5

<210> 108
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> R1

<400> 108
Ser Ser Gly Gln Pro Pro Pro Ser

1 5

<210> 109
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> R1

<400> 109
Cys Ser Ser Gly Gln Pro Pro Pro Ser
1 5

<210> 110
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> R1

<400> 110
Gly Pro Ser Ser Gly Ala Pro Pro Pro Ser
1 5 10

<210> 111
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> R1

<400> 111
Gly Pro Ser Ser Gly Ala Pro Pro Pro Ser Cys
1 5 10

<210> 112
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> R1

<400> 112
Pro Ser Ser Gly Ala Pro Pro Pro Ser
  1   5

<210> 113
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> R1

<400> 113
Pro Ser Ser Gly Ala Pro Pro Pro Ser Gly
  1   5   10

<210> 114
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> R1

<400> 114
Pro Ser Ser Gly Ala Pro Pro Pro Ser His Gly
  1   5   10

<210> 115
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> R1

<400> 115
Pro Ser Ser Gly Ala Pro Pro Pro Ser Ser
  1   5   10

<210> 116
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> R1

<400> 116
Pro Ser Ser Gly Gln Pro Pro Pro Ser
  1   5

<210> 117
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> R1

<400> 117
Pro Ser Ser Gly Gln Pro Pro Pro Ser Cys
  1   5   10

<210> 118
<211> 29
<212> PRT
<213> Homo sapiens

<400> 118
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