

X20448SeqListing15Nov15ST25
SEQUENCE LISTING

<110> Eli Lilly and Company

<120> GIP AND GLP-1 CO-AGONIST COMPOUNDS

<130> X20448

<150> 62/101488

<151> 2015-01-09

<160> 11

<170> PatentIn version 3.5

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<212> PRT

<213> Homo sapiens

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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

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<212> PRT

<213> Homo sapiens

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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

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<223> Synthetic Construct

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<223> Xaa at position 2 is nonnaturally occurring amino acid
2-Aminoisobutyric Acid

<220>

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 the epsilon-amino group of the K side-chain with
 ([2-(2-Amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)1-CO-(CH2)18-CO2
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 <223> Ser at position 39 is amidated as a C-terminal primary amide

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

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

Ser Gly Ala Pro Pro Pro Ser
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 <223> Xaa at position 22 is 1-Nal

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 <222> (39)..(39)
 <223> Ser at position 39 is amidated as a C-terminal primary amide

<400> 4

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

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

Ser Gly Ala Pro Pro Pro Ser
 35

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<223> Lys at position 20 is chemically modified through conjugation to the epsilon-amino group of the K side-chain with
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 H

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<223> Ser at position 39 is amidated as a C-terminal primary amide

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

Ser Gly Ala Pro Pro Pro Ser
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 H

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

Ser Gly Ala Pro Pro Pro Ser
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<223> Xaa at position 13 is nonnaturally occurring amino acid
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<223> Lys at position 20 is chemically modified through conjugation to
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<223> Ser at position 39 is amidated as a C-terminal primary amide

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

Ser Gly Ala Pro Pro Pro Ser
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<222> (20)..(20)
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Tyr Xaa Glu Gly Thr Phe Thr Ser Asp Tyr Ser Ile Xaa Leu Asp Lys
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Ile Ala Gln Lys Ala Xaa Val Gln Trp Leu Ile Ala Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
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 2-Aminoisobutyric Acid

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<220>
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 <222> (20)..(20)
 <223> Lys at position 20 is chemically modified through conjugation to
 the epsilon-amino group of the K side-chain with
 ([2-(2-Amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)2-CO-(CH2)16-CO2
 H

<220>
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 <222> (22)..(22)
 <223> Xaa at position 22 is 1-Nal

<220>
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 <222> (39)..(39)
 <223> Ser at position 39 is amidated as a C-terminal primary amide

<400> 9

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 1 5 10 15

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

Ser Gly Ala Pro Pro Pro Ser
 35

<210> 10
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<220>

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<222> (2)..(2)

<223> Aib

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<222> (13)..(13)

<223> Xaa at position 13 is nonnaturally occurring amino acid
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<223> Aib

<220>

<221> MOD_RES

<222> (20)..(20)

<223> Lys at position 20 is chemically modified through conjugation to
the epsilon-amino group of the K side-chain with
([2-(2-Amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)1-CO-(CH2)18-CO2
H

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<222> (22)..(22)

<223> Xaa at position 22 is 1-Nal

<220>

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<222> (39)..(39)

<223> Ser at position 39 is amidated as a C-terminal primary amide

<400> 10

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1 5 10 15

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

Ser Gly Ala Pro Pro Pro Ser
35

<210> 11

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<223> Aib

<220>
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<222> (13)..(13)
<223> Xaa at position 13 is nonnaturally occurring amino acid
      2-Aminoisobutyric Acid

<220>
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<223> Aib

<220>
<221> MOD_RES
<222> (20)..(20)
<223> Lys at position 20 is chemically modified through conjugation to
      the epsilon-amino group of the K side-chain with
      ([2-(2-Amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)a-CO-(CH2)b-CO2H
      wherein a is 1 to 2 and b is 10 to 20

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<222> (22)..(22)
<223> Xaa at position 22 is either Phe or 1-Nal

<220>
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      amide

<400> 11

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

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

Ser Gly Ala Pro Pro Pro Ser
35

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