SEQUENCE LISTING

<110> Eli Lilly and Company

<120> INCRETIN ANALOGS AND USES THEREOF

<130> X21791

<150> 62/608,644
<151> 2017-12-21

<160> 12

<170> PatentIn version 3.5

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<212> PRT
<213> Homo sapiens

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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
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<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
20 25 30

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<400> 3

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 Lys Arg Asn
20 25 30

Arg Asn Asn Ile Ala
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<213> Homo sapiens

<400> 4

Tyr Ala Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Ala Met Asp Lys
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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
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<213> Artificial Sequence

<220>
<223> Synthetic Construct

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

<220>
<221> MISC_FEATURE
<222> (3)..(3)

<223> Xaa at position 3 is Gln or His

<220>
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<222> (6)..(6)
<223> Xaa at position 6 is alpha-methyl-phenylalanine or
alpha-methyl-2-fluorophenylalanine

<220>
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<222> (13)..(13)
<223> Xaa at position 13 is alpha-methyl-Leu or Leu

<220>
<221> MOD_RES
<222> (17)..(17)
<223> Xaa at position 17 is any amino acid with a functional group
available for conjugation wherein the functional group is
conjugated to a C16-C22 fatty acid

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<222> (20)..(20)
<223> Xaa at position 2 is Aib, Gln, or His

<400> 5

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

Xaa Ala Gln Xaa Ala Phe Ile Glu Tyr Leu Leu Glu Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

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<220>
<223> Synthetic Construct

<220>
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<222> (2)..(2)
<223> Xaa at position 2 is alpha-amino-isobutyric acid

<220>
<221> MISC_FEATURE
<222> (6)..(6)
<223> Xaa at position 6 is alpha-methyl-phenylalanine

<220>
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<222> (17)..(17)
<223> Lys at position 17 is chemically modified by conjugation of the epsilon-amino group of the Lys side chain with (2-[2-(2-Amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)18-CO2H

<220>
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<222> (20)..(20)
<223> Xaa at position 20 is alpha-amino-isobutyric acid

<220>
<221> MOD_RES
<222> (39)..(39)
<223> Ser at position 39 is optionally amidated

<400> 6

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

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

Ser Gly Ala Pro Pro Pro Ser
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<223> Ser at position 39 is optionally amidated

<400> 7

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

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

Ser Gly Ala Pro Pro Pro Ser
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<210> 8
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<220>
<221> MISC_FEATURE
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<223> Xaa at position 6 is alpha-methyl-2-fluorophenylalanine

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<222> (17)..(17)
<223> Lys at position 17 is chemically modified by conjugation of the epsilon-amino group of the Lys side chain with (2-[2-(2-Amino-ethoxy)-ethoxy]-acetyl)2-(gamma-Glu)-CO-(CH2)18-CO2H

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<220>
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Tyr Xaa His Gly Thr Xaa Thr Ser Asp Tyr Ser Ile Leu Leu Asp Lys
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Lys Ala Gln Xaa Ala Phe Ile Glu Tyr Leu Leu Glu Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
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<210> 9
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<220>
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<222> (6)..(6)
<223> Xaa at position 6 is alpha-methyl-2-fluorophenylalanine

<220>
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<222> (17)..(17)
<223> Lys at position 17 is chemically modified by conjugation of the epsilon-amino group of the Lys side chain with (2-[2-(2-Amino-ethoxy)-ethoxy]-acetyl)-(gamma-Glu)-CO-(CH2)18-CO2H

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

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

Ser Gly Ala Pro Pro Pro Ser
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<210> 10
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Tyr Xaa Gln Gly Thr Xaa Thr Ser Asp Tyr Ser Ile Leu Leu Asp Lys
1 5 10 15

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

Ser Gly Ala Pro Pro Pro Ser
35

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<222> (39)..(39)
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Tyr Xaa Gln Gly Thr Xaa Thr Ser Asp Tyr Ser Ile Leu Leu Asp Lys
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Lys Ala Gln His Ala Phe Ile Glu Tyr Leu Leu Glu Gly Gly Pro Ser
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Ser Gly Ala Pro Pro Pro Ser
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<400> 12

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