SEQUENCE LISTING

<110> Sanofi

<120> Dual GLP1/GIP or trigonal GLP1/GIP/Glucagon Agonists

<130> DE2012/179

<150> EP12306647.4
<151> 2012-12-21

<160> 17

<170> PatentIn version 3.5

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His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu 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
35

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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

<210> 3
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<223> Lys derivatized at N6 with
(S)-4-carboxy-4-hexadecanoylamino-butyryl

<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 Arg Gly Arg Gly
20 25 30

<210> 4
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<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

eolf-seql
35 40

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

<400> 5

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
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Tyr Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Ile Gln Met Glu Glu
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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
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Tyr Ala Glu Gly Thr Phe Thr Ser Asp Val Ser Ile Tyr Leu Glu Gly
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Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Arg
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(S)-4-carboxy-4-hexadecanoylamino-butyryl

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eolf-seql

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

Ser Gly Ala Pro Pro Pro Ser
35

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(S)-4-carboxy-4-hexadecanoylamino-butyryl

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<223> (R)-alpha-methyl lysine

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<223> Amidated C-terminus

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

Ser Gly Ala Pro Pro Pro Ser
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(S)-4-carboxy-4-hexadecanoylamino-butyryl

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

Ser Gly Ala Pro Pro Pro Ser
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<400> 11

Tyr Ala Glu Gly Thr Phe Thr Ser Asp Leu Ser Ile Gln Lys Glu Glu
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eolf-seql

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

Ser Gly Ala Pro Pro Pro Ser
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(S)-4-carboxy-4-octadecanoylamino-butyryl

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Tyr Ala Gln Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Lys Asp Glu
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Gln Arg Ala Lys Glu Phe Ile Glu Trp Leu Lys Ser Gly Gly Pro Ser
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Ser Gly Ala Pro Pro Pro Ser
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<223> Lys derivatized at N6 with
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<223> (R)-alpha-methyl lysine

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

Ser Gly Ala Pro Pro Pro Ser
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<223> (S)-alpha-methyl lysine

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

Ser Gly Ala Pro Pro Pro Ser
35

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<223> Xaa is (S)-alpha-methyl ornithine

<220>
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<400> 15

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

Ser Gly Ala Pro Pro Pro Ser
35

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(S)-4-carboxy-4-hexadecanoylamino-butyryl

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<222> (20)..(20)

<223> (S)-alpha-methyl lysine

<220>

<221> MOD_RES

<222> (39)..(39)

<223> Amidated C-terminus

<400> 16

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

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

Ser Gly Ala Pro Pro Pro Ser
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<210> 17

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<222> (39)..(39)

<223> Amidated C-terminus

<400> 17

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

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

Ser Gly Ala Pro Pro Pro Ser
35