

SEQUENCE LISTING

<110> Novo Nordisk A/S

<120> Long acting Y2 receptor agonists

<130> 8062.020-EP

<160> 35

<170> PatentIn version 3.3

<210> 1

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<212> PRT

<213> Artificial

<220>

<223> Artificial protein based on human PYY

<220>

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Leu	Asn	Arg	Tyr	Tyr	Ala	Ser	Leu	Arg	His	Tyr	Leu	Asn	Leu	Val	Thr
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Arg	Gln	Arg	Tyr
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Xaa Xaa Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu
1 5 10 15

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20 25 30

Arg Gln Arg Tyr
35

<210> 3
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<400> 3

Xaa Xaa Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu
1 5 10 15

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20 25 30

Arg Gln Arg Tyr
35

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<400> 4

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Arg Gln Arg Tyr
35

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20 25 30

Arg Gln Arg Tyr
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Arg Gln Arg Tyr
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Xaa Xaa Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu
1 5 10 15

Leu Asn Arg Tyr Tyr Ala Ser Leu Tyr His Tyr Leu Asn Leu Val Thr
20 25 30

Arg Gln Arg Tyr
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Xaa Xaa Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu
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20 25 30

Arg Gln Arg Tyr
35

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<400> 9

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

Arg Gln Arg Tyr
35

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Xaa	Xaa	Ile	Lys	Pro	Glu	Ala	Pro	Gly	Glu	Asp	Ala	Ser	Pro	Glu	Glu
1				5				10					15		

Leu	Asn	Arg	Tyr	Tyr	Ala	Ser	Leu	Arg	His	Tyr	Leu	Asn	Leu	Val	Thr
			20					25					30		

Arg	Gln	Arg	Phe
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Xaa	Xaa	Ile	Lys	Pro	Glu	Ala	Pro	Gly	Glu	Asp	Ala	Ser	Pro	Glu	Glu
1				5				10					15		

Leu	Asn	Arg	Tyr	Tyr	Ala	Ser	Leu	Arg	His	Tyr	Leu	Asn	Leu	Val	Thr
			20					25					30		

Arg	Gln	Arg	Tyr
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Xaa	Xaa	Ile	Lys	Pro	Glu	Ala	Pro	Gly	Glu	Asp	Ala	Ser	Pro	Glu	Glu
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Leu	Asn	Arg	Tyr	Tyr	Ala	Ser	Leu	Arg	His	Tyr	Leu	Asn	Leu	Val	Thr
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Arg	Gln	Arg	Tyr
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<220>
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Xaa	Xaa	Ile	Lys	Pro	Glu	Ala	Pro	Gly	Glu	Asp	Ala	Ser	Pro	Glu	Glu
1			5					10						15	

Leu Asn Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr
20 25 30

Arg Gln Arg Tyr
35

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1 5 10 15

Leu Asn Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr
20 25 30

Arg Gln Arg Tyr
35

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<223> This position is Agp, which is intended to mean
2-amino-3-guanidino-propionic acid

<400> 16

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1 5 10 15

Leu Asn Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr
20 25 30

Arg Gln Xaa Tyr
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<210> 17

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<222> (1)..(2)

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<400> 17

Xaa Xaa Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu
1 5 10 15

Leu Asn Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr
20 25 30

Arg Gln Xaa Tyr
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<221> MISC_FEATURE

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<223> This position is HomoArg

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Leu	Asn	Arg	Tyr	Tyr	Ala	Ser	Leu	Arg	His	Tyr	Leu	Asn	Leu	Val	Thr
			20						25					30	

Arg	Gln	Arg	Tyr
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<223> This position is N-methyl Thr

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Leu	Asn	Arg	Tyr	Tyr	Ala	Ser	Leu	Arg	His	Tyr	Leu	Asn	Leu	Val	Thr
			20						25					30	

Arg	Gln	Arg	Tyr
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35

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1 5 10 15

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Arg Gln Xaa Tyr
35

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2-amino-4-guanidino-butyric acid

<400> 21

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Leu Asn Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr
20 25 30

Arg Gln Xaa Tyr
35

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1 5 10 15

Leu Asn Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr
 20 25 30

Arg Gln Arg Tyr
 35

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<222> (34)..(34)

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Xaa Xaa Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu
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20 25 30

Arg Gln Arg Tyr
35

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<223> These positions are deleted

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<222> (35)..(35)

<223> This position is NArg which is intended to mean N-substituted glycine with an arginine sidechain

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20 25 30

Arg Gln Arg Tyr
35

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<223> This position is NGln which is intended to mean N-substituted glycine with a glutamine sidechain

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1 5 10 15

Leu Asn Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr
20 25 30

Arg Gln Arg Tyr
35

<210> 27
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<223> These positions are deleted

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<222> (36)..(36)

<223> This position is N-methyl Tyr

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Leu	Asn	Arg	Tyr	Tyr	Ala	Ser	Leu	Arg	His	Tyr	Leu	Asn	Leu	Val	Thr
		20					25					30			

Arg	Gln	Arg	Tyr
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Leu	Asn	Arg	Tyr	Tyr	Ala	Ser	Leu	Arg	His	Tyr	Leu	Asn	Leu	Val	Thr
		20					25					30			

Arg	Gln	Arg	Tyr
		35	

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<220>

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<400> 29

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20 25 30

Arg Gln Arg Tyr
35

<210> 30

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20 25 30

Arg Gln Arg Tyr
35

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<220>
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<400> 31

Xaa Xaa Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu
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20 25 30

Arg Gln Arg Tyr
35

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20 25 30

Arg Gln Arg Tyr
35

<210> 33
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} Ile

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<400> 33

Xaa Xaa Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu
1          5          10          15

Leu Asn Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr
          20          25          30

Arg Gln Arg Tyr
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Xaa Xaa Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu
1          5          10          15

Leu Asn Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr
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Arg Gln Arg Tyr
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<220>
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<223> N-methyl Arg

<400> 35

Xaa Xaa Ile Lys Pro Glu Ala Pro Gly Lys Asp Ala Ser Pro Glu Glu
1 5 10 15

Leu Asn Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr
20 25 30

Arg Gln Arg Tyr
35