

SEQUENCE LISTING

<110> Novo Nordisk A/S

<120> LONG-ACTING Y2 RECEPTOR AGONISTS

<130> 8109.204-WO

<160> 94

<170> PatentIn version 3.3

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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
			20					25					30		

Arg	Gln	Lys	Tyr
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<400> 2

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 Lys Arg Tyr
 35

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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

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

Lys Gln Arg Tyr

35

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<400> 4

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 Lys
20 25 30

Arg Gln Arg Tyr
35

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acetyl)] Lys

<400> 5

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 Lys Thr
20 25 30

Arg Gln Arg Tyr
35

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anoylamino)butyrylamino]ethoxy}ethoxy)acetyl-amino]ethoxy}ethoxy)
acetyl)] Lys

<400> 6

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 Lys Val Thr
20 25 30

Arg Gln Arg Tyr
35

<210> 7

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<400> 7

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 Lys Leu Val Thr
20 25 30

Arg Gln Arg Tyr
35

<210> 8

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<400> 8

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 Lys Asn Leu Val Thr

20

25

30

Arg Gln Arg Tyr
35

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<400> 9

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 Lys Leu Asn Leu Val Thr
20 25 30

Arg Gln Arg Tyr
35

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<400> 10

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 Lys Tyr Leu Asn Leu Val Thr
20 25 30

Arg Gln Arg Tyr
35

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<400> 11

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 Lys His Tyr Leu Asn Leu Val Thr
20 25 30

Arg Gln Arg Tyr
35

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<400> 12

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	Lys	Arg	His	Tyr	Leu	Asn	Leu	Val	Thr
		20						25				30			

Arg	Gln	Arg	Tyr
		35	

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<400> 13

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 Lys Leu Arg His Tyr Leu Asn Leu Val Thr
 20 25 30

Arg Gln Arg Tyr
 35

<222> (1)..(2)
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 <400> 15

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

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

 Arg Gln Arg Tyr
 35

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 <400> 16

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

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

 Arg Gln Arg Tyr
 35

<210> 17
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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 Lys Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr
20 25 30

Arg Gln Arg Tyr
35

<210> 18
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<400> 18

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

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

Arg Gln Arg Tyr
35

<210> 19
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<400> 19

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

Lys 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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<400> 20

Xaa Xaa Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Lys
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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<400> 21

Xaa Xaa Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Lys 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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<400> 22

Xaa Xaa Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Lys 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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<400> 23

Xaa Xaa Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Lys 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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<400> 24

Xaa Xaa Ile Lys Pro Glu Ala Pro Gly Glu Asp Lys 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

<210> 25
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<400> 25

Xaa	Xaa	Ile	Lys	Pro	Glu	Ala	Pro	Gly	Glu	Lys	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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<400> 26

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

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<400> 27

Xaa Xaa Ile Lys Pro Glu Ala Pro Lys 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

<210> 28
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<222> (8) .. (8)

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<400> 28

Xaa	Xaa	Ile	Lys	Pro	Glu	Ala	Lys	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

<210> 29

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<222> (7) .. (7)

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<400> 29

Xaa	Xaa	Ile	Lys	Pro	Glu	Lys	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

<210> 30
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<400> 30

Xaa Xaa Ile Lys Pro Lys 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

<210> 31
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<223> [N-epsilon5(2-(2-{2-[2-(2-{2-[(S)-4-Carboxy-4-(17-carboxyheptadecanoylamino)butyrylamino]ethoxy}ethoxy)acetyl-amino]ethoxy}ethoxy)acetyl)] Lys

<400> 31

Xaa Xaa Ile Lys Lys 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

<210> 32

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<222> (4)..(4)

<223> [N-epsilon4(2-(2-{2-[2-(2-{2-[(S)-4-Carboxy-4-(17-carboxyheptadeca
noylamino)butyrylamino]ethoxy}ethoxy)acetyl-amino]ethoxy}ethoxy)a
cetyl)] Lys

<400> 32

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

<210> 33

<211> 36

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<223> [N-epsilon3(2-(2-{2-[2-(2-{2-[(S)-4-Carboxy-4-(17-carboxyheptadecanoylamino)butyrylamino]ethoxy}ethoxy)acetyl-amino]ethoxy}ethoxy)acetyl)] Lys

<400> 33

Xaa Xaa Lys 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

<210> 34
<211> 36
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<220>
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<220>
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<400> 34

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

<210> 35
<211> 36
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<223> [N-epsilon30(2-(2-{2-[2-(2-{2-[(S)-4-Carboxy-4-(17-carboxyheptadecanoylamino)butyrylamino]ethoxy}ethoxy)acetyl-amino]ethoxy}ethoxy)acetyl)] Lys

<400> 35

Xaa Xaa Ile Arg 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 Lys Val Thr
20 25 30

Arg Gln Arg Tyr
35

<210> 36
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<400> 36

Xaa Xaa Xaa Xaa 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 Lys Val Thr
20 25 30

Arg Gln Arg Tyr
35

<210> 37
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<220>
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<400> 37

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

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

Arg Gln Arg Tyr
35

<210> 38
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<400> 38

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

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

Arg Gln Arg Tyr
35

<210> 39
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<400> 39

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

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

Arg Gln Arg Tyr
35

<210> 40

<211> 36

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<220>

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<223> [N-epsilon30(2-(2-{2-[2-(2-{2-[(S)-4-Carboxy-4-(hexadecanoylamino) butyrylamino]ethoxy}ethoxy)acetyl-amino]ethoxy}ethoxy)acetyl)] Lys

<400> 40

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 Lys Val Thr
20 25 30

Arg Gln Arg Tyr
35

<210> 41

<211> 36

<212> PRT

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 <223> [N-epsilon30(2-(2-{2-[2-(2-{2-[(S)-4-Carboxy-4-(17-carboxyheptadecanoylamino)butyrylamino]ethoxy}ethoxy)acetyl-amino]ethoxy}ethoxy)acetyl)] Lys

 <400> 41

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

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

 Arg Gln Arg Tyr
 35

 <210> 42
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 <400> 42

 Lys Pro 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

 <210> 43

<211> 36
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anoylamino)butyrylamino]ethoxy}ethoxy)-acetylamino]ethoxy}ethoxy)
acetyl] Lys

<400> 43

Xaa Xaa Ile Ser 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 Lys Val Thr
20 25 30

Arg Gln Arg Tyr
35

<210> 44
<211> 36
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<220>
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anoylamino)butyrylamino]ethoxy}ethoxy)-acetylamino]ethoxy}ethoxy)
acetyl] Lys

<400> 44

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

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

Arg Gln Arg Tyr
35

<210> 45
<211> 36
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<220>
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<220>
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anoylamino)butyrylamino]ethoxy}ethoxy)-acetylamino]ethoxy}ethoxy)
acetyl] Lys

<400> 45

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 Asp Lys Val Thr
20 25 30

Arg Gln Arg Tyr
35

<210> 46
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anoylamino)butyrylamino]ethoxy}ethoxy)-acetylamino]ethoxy}ethoxy)
acetyl] Lys

<400> 46

Xaa Xaa Ile Glu 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 Lys Val Thr
20 25 30

Arg Gln Arg Tyr
35

<210> 47
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<220>
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<223> [N-epsilon30[2-(2-{2-[2-(2-{2-[(S)-4-Carboxy-4-(17-carboxyheptadecanoylamino)butyrylamino]ethoxy}ethoxy)-acetylamino]ethoxy}ethoxy)acetyl] Lys

<400> 47

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

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

Arg Gln Arg Tyr
35

<210> 48
<211> 36
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<220>
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<220>
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<400> 48

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

Leu Asn Arg Tyr Tyr Glu Ser Leu Arg His Tyr Leu Asn Lys Val Thr
20 25 30

Arg Gln Arg Tyr
35

<210> 49
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anoylamino)butyrylamino]ethoxy}ethoxy)-acetylamino]ethoxy}ethoxy)
acetyl] Lys

<400> 49

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

Leu Glu Arg Tyr Tyr Glu Ser Leu Arg His Tyr Leu Asn Lys Val Thr
20 25 30

Arg Gln Arg Tyr
35

<210> 50
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anoylamino)butyrylamino]ethoxy}ethoxy)-acetylamino]ethoxy}ethoxy)
acetyl] Lys

<400> 50

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

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

Arg Gln Arg Tyr
35

<210> 51
<211> 36
<212> PRT
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<223> [N-epsilon30[2-(2-{2-[2-(2-{2-[(S)-4-Carboxy-4-(17-carboxyheptadec
anoylamino)butyrylamino]ethoxy}ethoxy)-acetylamino]ethoxy}ethoxy)
acetyl] Lys

<400> 51

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

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

Arg Gln Arg Tyr
35

<210> 52
<211> 36
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<223> [N-epsilon30[2-(2-{2-[2-(2-{2-[(S)-4-Carboxy-4-(17-carboxyheptadec
anoylamino)butyrylamino]ethoxy}ethoxy)-acetylamino]ethoxy}ethoxy)
acetyl] Lys

<400> 52

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

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

Arg Gln Arg Tyr
35

<210> 53
<211> 36
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<223> [N-epsilon30[2-(2-{2-[2-(2-{2-[(S)-4-Carboxy-4-(17-carboxyheptadec
anoylamino)butyrylamino]ethoxy}ethoxy)-acetylamino]ethoxy}ethoxy)
acetyl] Lys

<400> 53

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

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

Arg Gln Arg Tyr
35

<210> 54
<211> 36
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<400> 54

Xaa Xaa Ile Val 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 Lys Val Thr
20 25 30

Arg Gln Arg Tyr
35

<210> 55
<211> 36
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<220>
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<400> 55

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 Lys Val Thr
20 25 30

Arg Gln Arg Tyr
35

<210> 56
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<222> (30)..(30)
<223> [N-epsilon30[2-(2-{2-[2-(2-{2-(19-carboxynonadecanoylamino)ethoxy}ethoxy)-acetylamino]ethoxy}ethoxy)acetyl] Lys

<400> 56

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 Lys Val Thr
20 25 30

Arg Gln Arg Tyr
35

<210> 57
<211> 36
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<220>
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<222> (30)..(30)
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oxynonadecanoylamino)methyl]cyclohexanecarbonyl}amino)butyrylamin
o]-ethoxy}ethoxy)-acetylamino]ethoxy}ethoxy)acetyl] Lys

<400> 57

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 Lys Val Thr
20 25 30

Arg Gln Arg Tyr
35

<210> 58
<211> 36
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y}ethoxy)-acetylamino]ethoxy}ethoxy)acetyl] Lys

<400> 58

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 Lys Val Thr

20

25

30

Arg Gln Arg Tyr
35

<210> 59
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<222> (30)..(30)
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anoylamino)butyrylamino]ethoxy}ethoxy)-acetylamino]ethoxy}ethoxy)
acetyl] Lys

<400> 59

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 Lys Val Thr
20 25 30

Arg Gln Arg Tyr
35

<210> 60
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<400> 60

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 Lys Val Thr
20 25 30

Arg Gln Arg Tyr
35

<210> 61
<211> 36
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<223> These positions are deleted

<220>
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<400> 61

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 Lys Val Thr
20 25 30

Arg Gln Arg Tyr
35

<210> 62
<211> 36
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<222> (30)..(30)

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ethoxy)-acetylamino]ethoxy}ethoxy)acetyl] Lys

<400> 62

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 Lys Val Thr
20 25 30

Arg Gln Arg Tyr
35

<210> 63

<211> 36

<212> PRT

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<223> Artificial protein based on human PYY

<220>

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ylamino)butyrylamino]ethoxy}ethoxy)-acetylamino]ethoxy}ethoxy)ace
tyl] Lys

<400> 63

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 Lys Val Thr
20 25 30

Arg Gln Arg Tyr
35

<210> 64
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<220>
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<222> (30)..(30)
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thoxy)-acetylamino]ethoxy}ethoxy)acetyl] Lys

<400> 64

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 Lys Val Thr
20 25 30

Arg Gln Arg Tyr
35

<210> 65
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<220>
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 ylsulfamoyl)butyryl]-ethoxy}ethoxy)-acetylamino]ethoxy}ethoxy)ace
 tyl] Lys

<400> 65

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 Lys Val Thr
 20 25 30

Arg Gln Arg Tyr
 35

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 oylamino)butyrylamino]ethoxy}ethoxy)-acetylamino]ethoxy}ethoxy)ac
 etyl] Lys

<400> 66

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

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

Arg Gln Arg Tyr
35

<210> 67
<211> 36
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<220>
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<220>
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<400> 67

Xaa Xaa Xaa Xaa 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 Lys Val Thr
20 25 30

Arg Gln Arg Tyr
35

<210> 68
<211> 36
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oylamino)butyrylamino]ethoxy}ethoxy)-acetylamino]ethoxy}ethoxy)ac
etyl] Lys

<400> 68

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

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

Arg Gln Arg Tyr
35

<210> 69
<211> 36
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oylamino)butyrylamino]ethoxy}ethoxy)-acetylamino]ethoxy}ethoxy)ac
etyl] Lys

<400> 69

Xaa Xaa Ile Arg 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 Lys Val Thr
20 25 30

Arg Gln Arg Tyr
35

<210> 70
<211> 36
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oylamino)butyrylamino]ethoxy}ethoxy)-acetylamino]ethoxy}ethoxy)ac
etyl] Lys

<400> 70

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa 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 Lys Val Thr
20 25 30

Arg Gln Arg Tyr
35

<210> 71
<211> 36
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<223> [N-epsilon30[2-(2-{2-[2-(2-{2-[(S)-4-Carboxy-4-(17-carboxyheptadecanoylamino)butyrylamino]ethoxy}ethoxy)-acetylamino]ethoxy}ethoxy)acetyl] Lys

<400> 71

Xaa Xaa Ile Gly 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 Lys Val Thr
20 25 30

Arg Gln Arg Tyr
35

<210> 72

<211> 36

<212> PRT

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<223> N-alpha-acetyl Arg

<220>

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<223> [N-epsilon30[2-(2-{2-[2-(2-{2-[(S)-4-Carboxy-4-(17-carboxyheptadecanoylamino)butyrylamino]ethoxy}ethoxy)-acetylamino]ethoxy}ethoxy)acetyl] Lys

<400> 72

Xaa Xaa Xaa Arg Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu
1 5 10 15

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

Arg Gln Arg Tyr
35

<210> 73
<211> 36
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<223> N-alpha-succinyl Arg

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<223> [N-epsilon30[2-(2-{2-[2-(2-{2-[(S)-4-Carboxy-4-(17-carboxyheptadecan
oylamino)butyrylamino]ethoxy}ethoxy)-acetylamino]ethoxy}ethoxy)ac
etyl] Lys

<400> 73

Xaa Xaa Xaa Arg Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu
1 5 10 15

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

Arg Gln Arg Tyr
35

<210> 74
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oylamino)butyrylamino]ethoxy}ethoxy)-acetylamino]ethoxy}ethoxy)ac
etyl] Lys

<400> 74

Xaa Xaa Xaa Arg 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 Lys Val Thr
20 25 30

Arg Gln Arg Tyr
35

<210> 75
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oylamino)butyrylamino]ethoxy}ethoxy)-acetylamino]ethoxy}ethoxy)ac
etyl] Lys

<220>
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<223> 4-fluorophenylalanine

<400> 75

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 Lys Val Thr
20 25 30

Arg Gln Arg Phe
35

<210> 76
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oylamino)butyrylamino]ethoxy}ethoxy)-acetylamino]ethoxy}ethoxy)ac
etyl] Lys

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<223> 4-pyridylalanine

<400> 76

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 Lys Val Thr
20 25 30

Arg Gln Arg Ala
35

<210> 77
<211> 36
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oylamino)butyrylamino]ethoxy}ethoxy)-acetylamino]ethoxy}ethoxy)ac
etyl] Lys

<400> 77

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

Leu Asn Glu Tyr Tyr Arg Ser Leu Arg His Tyr Leu Asn Lys Val Thr
20 25 30

Arg Gln Arg Tyr
35

<210> 78
<211> 36
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oylamino)butyrylamino]ethoxy}ethoxy)-acetylamino]ethoxy}ethoxy)ac
etyl] Lys

<400> 78

Xaa Xaa Ile Arg 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 Lys Val Thr
20 25 30

Arg Gln Arg Tyr
35

<210> 79
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oylamino)butyrylamino]ethoxy}ethoxy)-acetylamino]ethoxy}ethoxy)ac
etyl] Lys

<400> 79

Xaa Xaa Ile Gly 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 Lys Val Thr
20 25 30

Arg Gln Arg Tyr
35

<210> 80
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<400> 80

Xaa Xaa Ile Arg 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 Lys Val Thr
20 25 30

Arg Gln Arg Tyr
35

<210> 81
<211> 36
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<222> (30)..(30)
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oylamino)butyrylamino]ethoxy}ethoxy)-acetylamino]ethoxy}ethoxy)ac
etyl] Lys

<400> 81

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

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

Arg Gln Arg Tyr
35

<210> 82
<211> 36
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<220>
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<223> [N-epsilon30[2-(2-{2-[2-(2-{2-[(S)-4-Carboxy-4-(15-carboxypentadec
anoylamino)butyrylamino]ethoxy}ethoxy)-acetylamino]ethoxy}ethoxy)
acetyl] Lys

<400> 82

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 Lys Val Thr
20 25 30

Arg Gln Arg Tyr
35

<210> 83
<211> 36
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<400> 83

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

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

Arg Gln Arg Tyr
35

<210> 84
<211> 36
<212> PRT
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<223> [N-epsilon30[2-(2-{2-[2-(2-{2-[(S)-4-Carboxy-4-(17-carboxyheptadecanoylamino)butyrylamino]ethoxy}ethoxy)-acetylamino]ethoxy}ethoxy)acetyl] Lys

<400> 84

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

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

Arg Gln Arg Tyr
35

<210> 85

<211> 36

<212> PRT

<213> ARTIFICIAL

<220>

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<220>

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<223> These positions are deleted

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<222> (4)..(4)

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<220>

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<222> (30)..(30)

<223> [N-epsilon30[2-(2-{2-[2-(2-{2-[(S)-4-Carboxy-4-(17-carboxyheptadec
anoylamino)butyrylamino]ethoxy}ethoxy)-acetylamino]ethoxy}ethoxy)
acetyl] Lys

<400> 85

Xaa Xaa Ile Arg 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 Lys Val Thr
20 25 30

Arg Gln Arg Tyr
35

<210> 86

<211> 36

<212> PRT
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<220>
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<220>
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<220>
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<222> (3)..(3)
<223> D-alloIle3

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<223> [N-epsilon30[2-(2-{2-[2-(2-{2-[(S)-4-Carboxy-4-(17-carboxyheptadecanoylamino)butyrylamino]ethoxy}ethoxy)-acetylamino]ethoxy}ethoxy)acetyl] Lys

<400> 86

Xaa	Xaa	Ile	Arg	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	Lys	Val	Thr
			20					25					30		

Arg	Gln	Arg	Tyr
			35

<210> 87
<211> 36
<212> PRT
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<223> D-Ala

<220>
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<400> 87

Xaa Xaa Ile Ala 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 Lys Val Thr
 20 25 30

Arg Gln Arg Tyr
 35

<210> 88
 <211> 36
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 <223> These positions are deleted

<220>
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<400> 88

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 Lys Val Thr
 20 25 30

Arg Gln Arg Tyr
 35

<210> 89
 <211> 36

<212> PRT
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<220>
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<220>
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<223> N-alpha-acetyl Ile

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<400> 89

Xaa Xaa Ile Ala 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 Lys Val Thr
20 25 30

Arg Gln Arg Tyr
35

<210> 90
<211> 36
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<400> 90

Xaa Xaa Ile Arg 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 Lys Val Thr
20 25 30

Arg Gln Arg Tyr
35

<210> 91

<211> 36

<212> PRT

<213> ARTIFICIAL

<220>

<223> Artificial protein based on human PYY

<220>

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<223> These positions are deleted

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<222> (30)..(30)

<223> [N-epsilon30[2-(2-{2-[2-(2-{2-[(S)-4-Carboxy-4-(17-carboxyheptadec
anoylamino)butyrylamino]ethoxy}ethoxy)-acetylamino]ethoxy}ethoxy)
acetyl] Lys

<400> 91

Xaa Xaa Ile Lys Pro Glu Ala Glu 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 Lys Val Thr
20 25 30

Arg Gln Arg Tyr
35

<210> 92

<211> 36

<212> PRT

<213> ARTIFICIAL

<220>

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<220>
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<220>
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anoylamino)butyrylamino]ethoxy}ethoxy)-acetylamino]ethoxy}ethoxy)
acetyl] Lys

<400> 92

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

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

Arg Gln Arg Tyr
35

<210> 93
<211> 36
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<220>
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<220>
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anoylamino)butyrylamino]ethoxy}ethoxy)-acetylamino]ethoxy}ethoxy)
acetyl] Lys

<400> 93

Xaa Xaa Ile Ala 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 Lys Val Thr
20 25 30

Arg Gln Arg Tyr
35

<210> 94
<211> 36
<212> PRT
<213> Homo sapiens

<400> 94

Tyr Pro 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