

SEQUENCE LISTING

<110> Novo Nordisk A/S

<120> Amylin derivatives

<130> 7860.200-TW

<160> 35

<170> PatentIn version 3.5

<210> 1

<211> 37

<212> PRT

<213> HUMAN

<400> 1

Lys	Cys	Asn	Thr	Ala	Thr	Cys	Ala	Thr	Gln	Arg	Leu	Ala	Asn	Phe	Leu
1				5					10					15	

Val	His	Ser	Ser	Asn	Asn	Phe	Gly	Ala	Ile	Leu	Ser	Ser	Thr	Asn	Val
			20					25					30		

Gly	Ser	Asn	Thr	Tyr
			35	

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<211> 37

<212> PRT

<213> ARTIFICIAL

<220>

<223> peptide

<220>

<221> MISC_FEATURE

<222> (1)..(1)

<223> Xaa1 is deleted or independently selected from Lys, Arg, His and Glu

<220>

<221> MISC_FEATURE

<222> (3)..(3)

<223> Xaa3 is independently selected from Asn and Lys

<220>

<221> MISC_FEATURE

<222> (14)..(14)

<223> Xaa14 is independently selected from Glu, Asn, Gln and Asp

<220>

<221> MISC_FEATURE
<222> (17)..(17)
<223> Xaa17 is independently selected from His, Ser, Gly, Arg and Pro

<220>
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<222> (18)..(18)
<223> Xaa18 is independently selected from His or Arg

<220>
<221> MISC_FEATURE
<222> (21)..(21)
<223> Xaa21 is independently selected from Asp, Asn and Gln

<220>
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<222> (24)..(24)
<223> Xaa24 is independently selected from Glu and Gly

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<222> (25)..(25)
<223> Xaa25 is independently selected from Ala and Pro

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<221> MISC_FEATURE
<222> (26)..(26)
<223> Xaa26 is independently selected from Pro and Ile

<220>
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<222> (28)..(28)
<223> Xaa28 is independently selected from Ser and Pro

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<222> (29)..(29)
<223> Xaa29 is independently selected from Ser and Pro

<220>
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<222> (31)..(31)
<223> Xaa31 is independently selected from Glu and Asn

<400> 2

Xaa	Cys	Xaa	Thr	Ala	Thr	Cys	Ala	Thr	Gln	Arg	Leu	Ala	Xaa	Phe	Leu
1				5					10					15	

Xaa	Xaa	Ser	Ser	Xaa	Asn	Phe	Xaa	Xaa	Xaa	Leu	Xaa	Xaa	Thr	Asn	Val
			20				25						30		

Gly	Ser	Asn	Thr	Tyr
				35

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<213> ARTIFICIAL

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<400> 3

Cys Asn Thr Ala Thr Cys Ala Thr Gln Arg Leu Ala Asp Phe Leu His
1 5 10 15

His Ser Ser Asn Asn Phe Gly Pro Ile Leu Pro Pro Thr Asn Val Gly
20 25 30

Ser Asn Thr Tyr
35

<210> 4
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<220>
<223> peptide

<400> 4

Cys Asn Thr Ala Thr Cys Ala Thr Gln Arg Leu Ala Asn Phe Leu Ala
1 5 10 15

His Ser Ser Asn Asn Phe Gly Pro Ile Leu Pro Pro Thr Asn Val Gly
20 25 30

Ser Asn Thr Tyr
35

<210> 5
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<400> 5

Cys Asn Thr Ala Thr Cys Ala Thr Gln Arg Leu Ala Asn Phe Leu Gly
1 5 10 15

His Ser Ser Asn Asn Phe Gly Pro Ile Leu Pro Pro Thr Asn Val Gly
20 25 30

Ser Asn Thr Tyr
35

<210> 6
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<400> 6

Cys Asn Thr Ala Thr Cys Ala Thr Gln Arg Leu Ala Asn Phe Leu His
1 5 10 15

His Ser Ser Asn Asn Phe Glu Pro Ile Leu Pro Pro Thr Asn Val Gly
20 25 30

Ser Asn Thr Tyr
35

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<400> 7

Cys Asn Thr Ala Thr Cys Ala Thr Gln Arg Leu Ala Asn Phe Leu His
1 5 10 15

His Ser Ser Asn Asn Phe Gly Pro Ile Leu Pro Pro Thr Asp Val Gly
20 25 30

Ser Asn Thr Tyr
35

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<400> 8

Lys	Cys	Asn	Thr	Ala	Thr	Cys	Ala	Thr	Gln	Arg	Leu	Ala	Asn	Phe	Leu
1				5					10					15	

Ser	His	Ser	Ser	Asn	Asn	Phe	Gly	Pro	Ile	Leu	Pro	Pro	Thr	Asn	Val
			20					25					30		

Gly	Ser	Asn	Thr	Tyr
			35	

<210> 9

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<223> peptide

<400> 9

Cys	Asn	Thr	Ala	Thr	Cys	Ala	Thr	Gln	Arg	Leu	Ala	Asn	Phe	Leu	His
1				5				10						15	

His	Ser	Ser	Asn	Asn	Phe	Gly	Pro	Ile	Leu	Pro	Pro	Thr	Asn	Val	Gly
			20					25					30		

Ser	Asn	Thr	Tyr
			35

<210> 10

<211> 36

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<400> 10

Cys	Asn	Thr	Ala	Thr	Cys	Ala	Thr	Gln	Arg	Leu	Ala	Asn	Phe	Leu	His
1				5				10						15	

His	Ser	Ser	Asn	Asn	Phe	Gly	Pro	Ile	Leu	Pro	Pro	Thr	Asn	Val	Gly
			20					25					30		

Ser Asn Thr Tyr
35

<210> 11
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<213> ARTIFICIAL

<220>
<223> peptide

<400> 11

Cys Asn Thr Ala Thr Cys Ala Thr Gln Arg Leu Ala Asn Phe Leu Pro
1 5 10 15

His Ser Ser Asn Asn Phe Gly Pro Ile Leu Pro Pro Thr Asn Val Gly
20 25 30

Ser Asn Thr Tyr
35

<210> 12
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<220>
<223> peptide

<400> 12

Cys Asn Thr Ala Thr Cys Ala Thr Gln Arg Leu Ala Asn Phe Leu Arg
1 5 10 15

His Ser Ser Asn Asn Phe Gly Pro Ile Leu Pro Pro Thr Asn Val Gly
20 25 30

Ser Asn Thr Tyr
35

<210> 13
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<212> PRT
<213> ARTIFICIAL

<220>
<223> peptide

<400> 13

Cys Asn Thr Ala Thr Cys Ala Thr Gln Arg Leu Ala Asn Phe Leu Ser
1 5 10 15

His Ser Ser Asn Asn Phe Gly Pro Ile Leu Pro Pro Thr Asn Val Gly
20 25 30

Ser Asn Thr Tyr
35

<210> 14

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<400> 14

Glu Cys Asn Thr Ala Thr Cys Ala Thr Gln Arg Leu Ala Asp Phe Leu
1 5 10 15

His His Ser Ser Asn Asn Phe Gly Ala Pro Leu Ser Ser Thr Asn Val
20 25 30

Gly Ser Asn Thr Tyr
35

<210> 15

<211> 37

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<400> 15

Glu Cys Asn Thr Ala Thr Cys Ala Thr Gln Arg Leu Ala Asp Phe Leu
1 5 10 15

His His Ser Ser Gln Asn Phe Gly Ala Pro Leu Ser Ser Thr Asn Val
20 25 30

Gly Ser Asn Thr Tyr
35

<210> 16
<211> 37
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<400> 16

Glu Cys Asn Thr Ala Thr Cys Ala Thr Gln Arg Leu Ala Glu Phe Leu
1 5 10 15

His His Ser Ser Asn Asn Phe Gly Pro Ile Leu Pro Pro Thr Glu Val
20 25 30

Gly Ser Asn Thr Tyr
35

<210> 17
<211> 37
<212> PRT
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<220>
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<400> 17

Glu Cys Asn Thr Ala Thr Cys Ala Thr Gln Arg Leu Ala Asn Phe Leu
1 5 10 15

His His Ser Ser Asn Asn Phe Gly Pro Ile Leu Pro Pro Thr Asn Val
20 25 30

Gly Ser Asn Thr Tyr
35

<210> 18
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<400> 18

Glu Cys Asn Thr Ala Thr Cys Ala Thr Gln Arg Leu Ala Asn Phe Leu

1 5 10 15
His His Ser Ser Gln Asn Phe Gly Ala Pro Leu Ser Ser Thr Asn Val
 20 25 30

Gly Ser Asn Thr Tyr
 35

<210> 19
<211> 37
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<400> 19

Glu Cys Asn Thr Ala Thr Cys Ala Thr Gln Arg Leu Ala Asn Phe Leu
1 5 10 15

Arg His Ser Ser Asn Asn Phe Gly Ala Pro Leu Ser Ser Thr Asn Val
 20 25 30

Gly Ser Asn Thr Tyr
 35

<210> 20
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<400> 20

Glu Cys Asn Thr Ala Thr Cys Ala Thr Gln Arg Leu Ala Asn Phe Leu
1 5 10 15

Arg His Ser Ser Asn Asn Phe Gly Pro Ile Leu Pro Pro Thr Asn Val
 20 25 30

Gly Ser Asn Thr Tyr
 35

<210> 21
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<400> 21

His	Cys	Asn	Thr	Ala	Thr	Cys	Ala	Thr	Gln	Arg	Leu	Ala	Asn	Phe	Leu
1				5					10					15	

His	His	Ser	Ser	Asn	Asn	Phe	Gly	Pro	Ile	Leu	Pro	Pro	Thr	Asn	Val
			20					25					30		

Gly	Ser	Asn	Thr	Tyr
			35	

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<220>
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<400> 22

His	Cys	Asn	Thr	Ala	Thr	Cys	Ala	Thr	Gln	Arg	Leu	Ala	Asn	Phe	Leu
1				5					10					15	

His	Arg	Ser	Ser	Asn	Asn	Phe	Gly	Pro	Ile	Leu	Pro	Pro	Thr	Asn	Val
			20					25					30		

Gly	Ser	Asn	Thr	Tyr
			35	

<210> 23
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<212> PRT
<213> ARTIFICIAL

<220>
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<400> 23

His	Cys	Asn	Thr	Ala	Thr	Cys	Ala	Thr	Gln	Arg	Leu	Ala	Asn	Phe	Leu
1				5					10					15	

Arg	His	Ser	Ser	Asn	Asn	Phe	Gly	Pro	Ile	Leu	Pro	Pro	Thr	Asn	Val
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

20

25

30

Gly Ser Asn Thr Tyr
35

<210> 24
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<400> 24

Lys Cys Lys Thr Ala Thr Cys Ala Thr Gln Arg Leu Ala Asn Phe Leu
1 5 10 15

His His Ser Ser Asp Asn Phe Gly Pro Ile Leu Pro Pro Thr Asn Val
20 25 30

Gly Ser Asn Thr Tyr
35

<210> 25
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<220>
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<400> 25

Lys Cys Asn Thr Ala Thr Cys Ala Thr Gln Arg Leu Ala Asn Phe Leu
1 5 10 15

Ala His Ser Ser Asn Asn Phe Gly Pro Ile Leu Pro Pro Thr Asn Val
20 25 30

Gly Ser Asn Thr Tyr
35

<210> 26
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<400> 26

Lys	Cys	Asn	Thr	Ala	Thr	Cys	Ala	Thr	Gln	Arg	Leu	Ala	Asn	Phe	Leu
1				5					10					15	

Gly	His	Ser	Ser	Asn	Asn	Phe	Gly	Pro	Ile	Leu	Pro	Pro	Thr	Asn	Val
			20					25					30		

Gly	Ser	Asn	Thr	Tyr
				35

<210> 27

<211> 37

<212> PRT

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<220>

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<400> 27

Lys	Cys	Asn	Thr	Ala	Thr	Cys	Ala	Thr	Gln	Arg	Leu	Ala	Asn	Phe	Leu
1				5					10					15	

His	His	Ser	Ser	Asn	Asn	Phe	Gly	Pro	Ile	Leu	Pro	Pro	Thr	Asn	Val
			20					25					30		

Gly	Ser	Asn	Thr	Tyr
				35

<210> 28

<211> 37

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<400> 28

Lys	Cys	Asn	Thr	Ala	Thr	Cys	Ala	Thr	Gln	Arg	Leu	Ala	Asn	Phe	Leu
1				5					10					15	

Arg	His	Ser	Ser	Asn	Asn	Phe	Gly	Pro	Ile	Leu	Pro	Pro	Thr	Asn	Val
			20					25					30		

Gly	Ser	Asn	Thr	Tyr
-----	-----	-----	-----	-----

35

<210> 29
<211> 37
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<220>
<223> peptide

<400> 29

Arg Cys Asn Thr Ala Thr Cys Ala Thr Gln Arg Leu Ala Asn Phe Leu
1 5 10 15

Ala His Ser Ser Asn Asn Phe Gly Pro Ile Leu Pro Pro Thr Asn Val
20 25 30

Gly Ser Asn Thr Tyr
35

<210> 30
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<220>
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<400> 30

Arg Cys Asn Thr Ala Thr Cys Ala Thr Gln Arg Leu Ala Asn Phe Leu
1 5 10 15

His His Ser Ser Asn Asn Phe Gly Pro Ile Leu Pro Pro Thr Asn Val
20 25 30

Gly Ser Asn Thr Tyr
35

<210> 31
<211> 37
<212> PRT
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<220>
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<400> 31

Arg Cys Asn Thr Ala Thr Cys Ala Thr Gln Arg Leu Ala Asn Phe Leu
1 5 10 15

His His Ser Ser Gln Asn Phe Gly Pro Ile Leu Pro Pro Thr Asn Val
20 25 30

Gly Ser Asn Thr Tyr
35

<210> 32
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<400> 32

Lys Cys Asn Thr Ala Thr Cys Ala Thr Gln Arg Leu Ala Asn Phe Leu
1 5 10 15

Pro His Ser Ser Asn Asn Phe Gly Pro Ile Leu Pro Pro Thr Asn Val
20 25 30

Gly Ser Asn Thr Tyr
35

<210> 33
<211> 37
<212> PRT
<213> ARTIFICIAL

<220>
<223> peptide

<400> 33

Arg Cys Asn Thr Ala Thr Cys Ala Thr Gln Arg Leu Ala Asn Phe Leu
1 5 10 15

Arg His Ser Ser Asn Asn Phe Gly Pro Ile Leu Pro Pro Thr Asn Val
20 25 30

Gly Ser Asn Thr Tyr
35

<210> 34

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<220>
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<400> 34

Arg	Cys	Asn	Thr	Ala	Thr	Cys	Ala	Thr	Gln	Arg	Leu	Ala	Asn	Phe	Leu
1				5					10					15	

Arg	His	Ser	Ser	Gln	Asn	Phe	Gly	Pro	Ile	Leu	Pro	Pro	Thr	Asn	Val
			20					25					30		

Gly	Ser	Asn	Thr	Tyr
			35	

<210> 35
<211> 37
<212> PRT
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<220>
<223> peptide

<400> 35

Arg	Cys	Asn	Thr	Ala	Thr	Cys	Ala	Thr	Gln	Arg	Leu	Ala	Asn	Phe	Leu
1				5					10					15	

Ser	His	Ser	Ser	Asn	Asn	Phe	Gly	Pro	Ile	Leu	Pro	Pro	Thr	Asn	Val
			20					25					30		

Gly	Ser	Asn	Thr	Tyr
			35	