

SEQUENCE LISTING

<110> Ascendis Pharma Bone Diseases A/S

<120> Liquid Pharmaceutical Formulations of PTH Conjugates

<130> CPX72171PC

<160> 122

<170> PatentIn version 3.5

<210> 1

<211> 84

<212> PRT

<213> Homo sapiens

<400> 1

Ser	Val	Ser	Glu	Ile	Gln	Leu	Met	His	Asn	Leu	Gly	Lys	His	Leu	Asn
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Ser	Met	Glu	Arg	Val	Glu	Trp	Leu	Arg	Lys	Lys	Leu	Gln	Asp	Val	His
			20					25					30		

Asn	Phe	Val	Ala	Leu	Gly	Ala	Pro	Leu	Ala	Pro	Arg	Asp	Ala	Gly	Ser
		35					40					45			

Gln	Arg	Pro	Arg	Lys	Lys	Glu	Asp	Asn	Val	Leu	Val	Glu	Ser	His	Glu
	50					55					60				

Lys	Ser	Leu	Gly	Glu	Ala	Asp	Lys	Ala	Asp	Val	Asn	Val	Leu	Thr	Lys
65					70					75					80

Ala Lys Ser Gln

<210> 2

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<213> Artificial Sequence

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<223> Human PTH 1-83

<400> 2

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala Gly Ser
35 40 45

Gln Arg Pro Arg Lys Lys Glu Asp Asn Val Leu Val Glu Ser His Glu
50 55 60

Lys Ser Leu Gly Glu Ala Asp Lys Ala Asp Val Asn Val Leu Thr Lys
65 70 75 80

Ala Lys Ser

<210> 3

<211> 82

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<223> human PTH 1-82

<400> 3

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala Gly Ser
35 40 45

Gln Arg Pro Arg Lys Lys Glu Asp Asn Val Leu Val Glu Ser His Glu

50

55

60

Lys Ser Leu Gly Glu Ala Asp Lys Ala Asp Val Asn Val Leu Thr Lys
65 70 75 80

Ala Lys

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<212> PRT
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<223> human PTH 1-81

<400> 4

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala Gly Ser
35 40 45

Gln Arg Pro Arg Lys Lys Glu Asp Asn Val Leu Val Glu Ser His Glu
50 55 60

Lys Ser Leu Gly Glu Ala Asp Lys Ala Asp Val Asn Val Leu Thr Lys
65 70 75 80

Ala

<210> 5
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<212> PRT
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<223> human PTH 1-80

<400> 5

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala Gly Ser
35 40 45

Gln Arg Pro Arg Lys Lys Glu Asp Asn Val Leu Val Glu Ser His Glu
50 55 60

Lys Ser Leu Gly Glu Ala Asp Lys Ala Asp Val Asn Val Leu Thr Lys
65 70 75 80

<210> 6

<211> 79

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<213> Artificial Sequence

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<223> human PTH 1-79

<400> 6

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala Gly Ser
35 40 45

Gln Arg Pro Arg Lys Lys Glu Asp Asn Val Leu Val Glu Ser His Glu
50 55 60

Lys Ser Leu Gly Glu Ala Asp Lys Ala Asp Val Asn Val Leu Thr
65 70 75

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<211> 78
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<400> 7

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala Gly Ser
35 40 45

Gln Arg Pro Arg Lys Lys Glu Asp Asn Val Leu Val Glu Ser His Glu
50 55 60

Lys Ser Leu Gly Glu Ala Asp Lys Ala Asp Val Asn Val Leu
65 70 75

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<400> 8

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His

20

25

30

Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala Gly Ser
 35 40 45

Gln Arg Pro Arg Lys Lys Glu Asp Asn Val Leu Val Glu Ser His Glu
 50 55 60

Lys Ser Leu Gly Glu Ala Asp Lys Ala Asp Val Asn Val
 65 70 75

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 1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
 20 25 30

Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala Gly Ser
 35 40 45

Gln Arg Pro Arg Lys Lys Glu Asp Asn Val Leu Val Glu Ser His Glu
 50 55 60

Lys Ser Leu Gly Glu Ala Asp Lys Ala Asp Val Asn
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<211> 75

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<400> 10

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1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala Gly Ser
35 40 45

Gln Arg Pro Arg Lys Lys Glu Asp Asn Val Leu Val Glu Ser His Glu
50 55 60

Lys Ser Leu Gly Glu Ala Asp Lys Ala Asp Val
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<210> 11

<211> 74

<212> PRT

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<400> 11

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1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala Gly Ser
35 40 45

Gln Arg Pro Arg Lys Lys Glu Asp Asn Val Leu Val Glu Ser His Glu
50 55 60

Lys Ser Leu Gly Glu Ala Asp Lys Ala Asp
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<210> 12
<211> 73
<212> PRT
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<400> 12

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala Gly Ser
35 40 45

Gln Arg Pro Arg Lys Lys Glu Asp Asn Val Leu Val Glu Ser His Glu
50 55 60

Lys Ser Leu Gly Glu Ala Asp Lys Ala
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<210> 13
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<400> 13

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His

20

25

30

Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala Gly Ser
 35 40 45

Gln Arg Pro Arg Lys Lys Glu Asp Asn Val Leu Val Glu Ser His Glu
 50 55 60

Lys Ser Leu Gly Glu Ala Asp Lys
 65 70

<210> 14

<211> 71

<212> PRT

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<223> human PTH 1-71

<400> 14

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
 1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
 20 25 30

Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala Gly Ser
 35 40 45

Gln Arg Pro Arg Lys Lys Glu Asp Asn Val Leu Val Glu Ser His Glu
 50 55 60

Lys Ser Leu Gly Glu Ala Asp
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<211> 70

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<400> 15

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala Gly Ser
35 40 45

Gln Arg Pro Arg Lys Lys Glu Asp Asn Val Leu Val Glu Ser His Glu
50 55 60

Lys Ser Leu Gly Glu Ala
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<210> 16

<211> 69

<212> PRT

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Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala Gly Ser
35 40 45

Gln Arg Pro Arg Lys Lys Glu Asp Asn Val Leu Val Glu Ser His Glu
50 55 60

Lys Ser Leu Gly Glu
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<211> 68
<212> PRT
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<400> 17

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala Gly Ser
35 40 45

Gln Arg Pro Arg Lys Lys Glu Asp Asn Val Leu Val Glu Ser His Glu
50 55 60

Lys Ser Leu Gly
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<210> 18
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<212> PRT
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<400> 18

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His

20

25

30

Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala Gly Ser
 35 40 45

Gln Arg Pro Arg Lys Lys Glu Asp Asn Val Leu Val Glu Ser His Glu
 50 55 60

Lys Ser Leu
 65

<210> 19
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 <212> PRT
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<400> 19

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
 1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
 20 25 30

Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala Gly Ser
 35 40 45

Gln Arg Pro Arg Lys Lys Glu Asp Asn Val Leu Val Glu Ser His Glu
 50 55 60

Lys Ser
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<210> 20
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<400> 20

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala Gly Ser
35 40 45

Gln Arg Pro Arg Lys Lys Glu Asp Asn Val Leu Val Glu Ser His Glu
50 55 60

Lys
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<210> 21

<211> 64

<212> PRT

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<400> 21

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala Gly Ser
35 40 45

Gln Arg Pro Arg Lys Lys Glu Asp Asn Val Leu Val Glu Ser His Glu
50 55 60

<210> 22
<211> 63
<212> PRT
<213> Artificial Sequence

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<400> 22

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala Gly Ser
35 40 45

Gln Arg Pro Arg Lys Lys Glu Asp Asn Val Leu Val Glu Ser His
50 55 60

<210> 23
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<212> PRT
<213> Artificial Sequence

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<400> 23

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala Gly Ser
35 40 45

Gln Arg Pro Arg Lys Lys Glu Asp Asn Val Leu Val Glu Ser

50

55

60

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<400> 24

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
 1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
 20 25 30

Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala Gly Ser
 35 40 45

Gln Arg Pro Arg Lys Lys Glu Asp Asn Val Leu Val Glu
 50 55 60

<210> 25
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<400> 25

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
 1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
 20 25 30

Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala Gly Ser
 35 40 45

Gln Arg Pro Arg Lys Lys Glu Asp Asn Val Leu Val
50 55 60

<210> 26
<211> 59
<212> PRT
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<400> 26

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala Gly Ser
35 40 45

Gln Arg Pro Arg Lys Lys Glu Asp Asn Val Leu
50 55

<210> 27
<211> 58
<212> PRT
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<400> 27

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala Gly Ser

35

40

45

Gln Arg Pro Arg Lys Lys Glu Asp Asn Val
 50 55

<210> 28

<211> 57

<212> PRT

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Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
 1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
 20 25 30

Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala Gly Ser
 35 40 45

Gln Arg Pro Arg Lys Lys Glu Asp Asn
 50 55

<210> 29

<211> 56

<212> PRT

<213> Artificial Sequence

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<223> human PTH 1-56

<400> 29

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
 1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
 20 25 30

Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala Gly Ser
35 40 45

Gln Arg Pro Arg Lys Lys Glu Asp
50 55

<210> 30
<211> 55
<212> PRT
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<400> 30

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala Gly Ser
35 40 45

Gln Arg Pro Arg Lys Lys Glu
50 55

<210> 31
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<212> PRT
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<400> 31

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His

20

25

30

Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala Gly Ser
 35 40 45

Gln Arg Pro Arg Lys Lys
 50

<210> 32
 <211> 53
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 32

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
 1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
 20 25 30

Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala Gly Ser
 35 40 45

Gln Arg Pro Arg Lys
 50

<210> 33
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 <212> PRT
 <213> Artificial Sequence

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<400> 33

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
 1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala Gly Ser
35 40 45

Gln Arg Pro Arg
50

<210> 34
<211> 51
<212> PRT
<213> Artificial Sequence

<220>
<223> human PTH 1-51

<400> 34

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala Gly Ser
35 40 45

Gln Arg Pro
50

<210> 35
<211> 50
<212> PRT
<213> Artificial Sequence

<220>
<223> human PTH 1-50

<400> 35

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn

1	5	10	15
Ser	Met	Glu	Arg
	Val	Glu	Trp
	20	Leu	Arg
		25	Lys
			Lys
			Leu
			Gln
			Asp
			30
			Val
			His

Asn	Phe	Val	Ala	Leu	Gly	Ala	Pro	Leu	Ala	Pro	Arg	Asp	Ala	Gly	Ser
	35						40					45			

Gln	Arg
50	

<210> 36
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 <212> PRT
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<400> 36

Ser	Val	Ser	Glu	Ile	Gln	Leu	Met	His	Asn	Leu	Gly	Lys	His	Leu	Asn
1				5					10					15	

Ser	Met	Glu	Arg	Val	Glu	Trp	Leu	Arg	Lys	Lys	Leu	Gln	Asp	Val	His
	20						25						30		

Asn	Phe	Val	Ala	Leu	Gly	Ala	Pro	Leu	Ala	Pro	Arg	Asp	Ala	Gly	Ser
	35						40					45			

Gln

<210> 37
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 <212> PRT
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<220>
 <223> human PTH 1-48

<400> 37

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
 1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
 20 25 30

Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala Gly Ser
 35 40 45

<210> 38
 <211> 47
 <212> PRT
 <213> Artificial Sequence

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 <223> human PTH 1-47

<400> 38

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
 1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
 20 25 30

Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala Gly
 35 40 45

<210> 39
 <211> 46
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 39

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
 1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His

20

25

30

Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala
 35 40 45

<210> 40

<211> 45

<212> PRT

<213> Artificial Sequence

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<223> human PTH 1-45

<400> 40

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
 1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
 20 25 30

Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp
 35 40 45

<210> 41

<211> 44

<212> PRT

<213> Artificial Sequence

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<223> human PTH 1-44

<400> 41

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
 1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
 20 25 30

Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg
 35 40

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<220>
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<400> 42

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro
35 40

<210> 43
<211> 42
<212> PRT
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<400> 43

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe Val Ala Leu Gly Ala Pro Leu Ala
35 40

<210> 44
<211> 41
<212> PRT
<213> Artificial Sequence

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<223> human PTH-41

<400> 44

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe Val Ala Leu Gly Ala Pro Leu
35 40

<210> 45

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> human PTH 1-40

<400> 45

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe Val Ala Leu Gly Ala Pro
35 40

<210> 46

<211> 39

<212> PRT

<213> Artificial Sequence

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<223> human PTH 1-39

<400> 46

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn

1	5	10	15
Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His			
	20	25	30

Asn Phe Val Ala Leu Gly Ala
35

<210> 47
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 <212> PRT
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<220>
 <223> human PTH 1-38

<400> 47

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe Val Ala Leu Gly
35

<210> 48
 <211> 37
 <212> PRT
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<220>
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<400> 48

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe Val Ala Leu
35

<210> 49
<211> 36
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<213> Artificial Sequence

<220>
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<400> 49

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe Val Ala
35

<210> 50
<211> 35
<212> PRT
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<220>
<223> human PTH 1-35

<400> 50

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe Val
35

<210> 51

<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> human PTH 1-34

<400> 51

Ser	Val	Ser	Glu	Ile	Gln	Leu	Met	His	Asn	Leu	Gly	Lys	His	Leu	Asn
1				5					10					15	

Ser	Met	Glu	Arg	Val	Glu	Trp	Leu	Arg	Lys	Lys	Leu	Gln	Asp	Val	His
			20					25					30		

Asn Phe

<210> 52
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> human PTH 1-33

<400> 52

Ser	Val	Ser	Glu	Ile	Gln	Leu	Met	His	Asn	Leu	Gly	Lys	His	Leu	Asn
1				5					10					15	

Ser	Met	Glu	Arg	Val	Glu	Trp	Leu	Arg	Lys	Lys	Leu	Gln	Asp	Val	His
			20					25					30		

Asn

<210> 53
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> human PTH 1-32

<400> 53

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

<210> 54

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> human PTH 1-31

<400> 54

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val
20 25 30

<210> 55

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> human PTH 1-30

<400> 55

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp
20 25 30

<210> 56

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> human PTH 1-29

<400> 56

Ser	Val	Ser	Glu	Ile	Gln	Leu	Met	His	Asn	Leu	Gly	Lys	His	Leu	Asn
1			5						10					15	

Ser	Met	Glu	Arg	Val	Glu	Trp	Leu	Arg	Lys	Lys	Leu	Gln
		20						25				

<210> 57

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> human PTH 1-28

<400> 57

Ser	Val	Ser	Glu	Ile	Gln	Leu	Met	His	Asn	Leu	Gly	Lys	His	Leu	Asn
1			5						10					15	

Ser	Met	Glu	Arg	Val	Glu	Trp	Leu	Arg	Lys	Lys	Leu
		20						25			

<210> 58

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> human PTH 1-27

<400> 58

Ser	Val	Ser	Glu	Ile	Gln	Leu	Met	His	Asn	Leu	Gly	Lys	His	Leu	Asn
1			5						10					15	

Ser	Met	Glu	Arg	Val	Glu	Trp	Leu	Arg	Lys	Lys
		20						25		

<210> 59
<211> 26
<212> PRT
<213> Artificial Sequence

<220>
<223> human PTH 1-26

<400> 59

Ser	Val	Ser	Glu	Ile	Gln	Leu	Met	His	Asn	Leu	Gly	Lys	His	Leu	Asn
1				5					10					15	

Ser	Met	Glu	Arg	Val	Glu	Trp	Leu	Arg	Lys
		20						25	

<210> 60
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> human PTH 1-25

<400> 60

Ser	Val	Ser	Glu	Ile	Gln	Leu	Met	His	Asn	Leu	Gly	Lys	His	Leu	Asn
1				5					10					15	

Ser	Met	Glu	Arg	Val	Glu	Trp	Leu	Arg
			20					25

<210> 61
<211> 84
<212> PRT
<213> Artificial Sequence

<220>
<223> amidated human PTH 1-84

<220>
<221> MOD_RES
<222> (84)..(84)
<223> AMIDATION

<400> 61

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala Gly Ser
35 40 45

Gln Arg Pro Arg Lys Lys Glu Asp Asn Val Leu Val Glu Ser His Glu
50 55 60

Lys Ser Leu Gly Glu Ala Asp Lys Ala Asp Val Asn Val Leu Thr Lys
65 70 75 80

Ala Lys Ser Gln

<210> 62

<211> 83

<212> PRT

<213> Artificial Sequence

<220>

<223> amidated human PTH 1-83

<220>

<221> MOD_RES

<222> (83)..(83)

<223> AMIDATION

<400> 62

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala Gly Ser
35 40 45

Gln Arg Pro Arg Lys Lys Glu Asp Asn Val Leu Val Glu Ser His Glu
50 55 60

Lys Ser Leu Gly Glu Ala Asp Lys Ala Asp Val Asn Val Leu Thr Lys
65 70 75 80

Ala Lys Ser

<210> 63
<211> 82
<212> PRT
<213> Artificial Sequence

<220>
<223> amidated human PTH 1-82

<220>
<221> MOD_RES
<222> (82)..(82)
<223> AMIDATION

<400> 63

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala Gly Ser
35 40 45

Gln Arg Pro Arg Lys Lys Glu Asp Asn Val Leu Val Glu Ser His Glu
50 55 60

Lys Ser Leu Gly Glu Ala Asp Lys Ala Asp Val Asn Val Leu Thr Lys

<213> Artificial Sequence

<220>

<223> amidated human PTH 1-80

<220>

<221> MOD_RES

<222> (80)..(80)

<223> AMIDATION

<400> 65

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala Gly Ser
35 40 45

Gln Arg Pro Arg Lys Lys Glu Asp Asn Val Leu Val Glu Ser His Glu
50 55 60

Lys Ser Leu Gly Glu Ala Asp Lys Ala Asp Val Asn Val Leu Thr Lys
65 70 75 80

<210> 66

<211> 79

<212> PRT

<213> Artificial Sequence

<220>

<223> amidated human PTH 1-79

<220>

<221> MOD_RES

<222> (79)..(79)

<223> AMIDATION

<400> 66

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn

1	5	10	15
Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His	20	25	30
Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala Gly Ser	35	40	45
Gln Arg Pro Arg Lys Lys Glu Asp Asn Val Leu Val Glu Ser His Glu	50	55	60
Lys Ser Leu Gly Glu Ala Asp Lys Ala Asp Val Asn Val Leu Thr	65	70	75

<210> 67
 <211> 78
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> amidated human PTH 1-78

<220>
 <221> MOD_RES
 <222> (78)..(78)
 <223> AMIDATION

<400> 67

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn	1	5	10	15
---	---	---	----	----

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His	20	25	30
---	----	----	----

Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala Gly Ser	35	40	45
---	----	----	----

Gln Arg Pro Arg Lys Lys Glu Asp Asn Val Leu Val Glu Ser His Glu	50	55	60
---	----	----	----

Lys Ser Leu Gly Glu Ala Asp Lys Ala Asp Val Asn Val Leu
65 70 75

<210> 68
<211> 77
<212> PRT
<213> Artificial Sequence

<220>
<223> amidated human PTH 1-77

<220>
<221> MOD_RES
<222> (77)..(77)
<223> AMIDATION

<400> 68

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala Gly Ser
35 40 45

Gln Arg Pro Arg Lys Lys Glu Asp Asn Val Leu Val Glu Ser His Glu
50 55 60

Lys Ser Leu Gly Glu Ala Asp Lys Ala Asp Val Asn Val
65 70 75

<210> 69
<211> 76
<212> PRT
<213> Artificial Sequence

<220>
<223> amidated human PTH 1-76

<220>

<221> MOD_RES

<222> (76)..(76)

<223> AMIDATION

<400> 69

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala Gly Ser
35 40 45

Gln Arg Pro Arg Lys Lys Glu Asp Asn Val Leu Val Glu Ser His Glu
50 55 60

Lys Ser Leu Gly Glu Ala Asp Lys Ala Asp Val Asn
65 70 75

<210> 70

<211> 75

<212> PRT

<213> Artificial Sequence

<220>

<223> amidated human PTH 1-75

<220>

<221> MOD_RES

<222> (75)..(75)

<223> AMIDATION

<400> 70

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala Gly Ser
35 40 45

Gln Arg Pro Arg Lys Lys Glu Asp Asn Val Leu Val Glu Ser His Glu
50 55 60

Lys Ser Leu Gly Glu Ala Asp Lys Ala Asp Val
65 70 75

<210> 71
<211> 74
<212> PRT
<213> Artificial Sequence

<220>
<223> amidated human PTH 1-74

<220>
<221> MOD_RES
<222> (74)..(74)
<223> AMIDATION

<400> 71

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala Gly Ser
35 40 45

Gln Arg Pro Arg Lys Lys Glu Asp Asn Val Leu Val Glu Ser His Glu
50 55 60

Lys Ser Leu Gly Glu Ala Asp Lys Ala Asp
65 70

<210> 72

<211> 73
<212> PRT
<213> Artificial Sequence

<220>
<223> amidated human PTH 1-73

<220>
<221> MOD_RES
<222> (73)..(73)
<223> AMIDATION

<400> 72

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala Gly Ser
35 40 45

Gln Arg Pro Arg Lys Lys Glu Asp Asn Val Leu Val Glu Ser His Glu
50 55 60

Lys Ser Leu Gly Glu Ala Asp Lys Ala
65 70

<210> 73
<211> 72
<212> PRT
<213> Artificial Sequence

<220>
<223> amidated human PTH 1-72

<220>
<221> MOD_RES
<222> (72)..(72)
<223> AMIDATION

<400> 73

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
 1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
 20 25 30

Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala Gly Ser
 35 40 45

Gln Arg Pro Arg Lys Lys Glu Asp Asn Val Leu Val Glu Ser His Glu
 50 55 60

Lys Ser Leu Gly Glu Ala Asp Lys
 65 70

<210> 74
 <211> 71
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> amidated human PTH 1-71

<220>
 <221> MOD_RES
 <222> (71)..(71)
 <223> AMIDATION

<400> 74

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
 1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
 20 25 30

Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala Gly Ser
 35 40 45

Gln Arg Pro Arg Lys Lys Glu Asp Asn Val Leu Val Glu Ser His Glu

50

55

60

Lys Ser Leu Gly Glu Ala Asp
65 70

<210> 75

<211> 70

<212> PRT

<213> Artificial Sequence

<220>

<223> amidated human PTH 1-70

<220>

<221> MOD_RES

<222> (70)..(70)

<223> AMIDATION

<400> 75

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala Gly Ser
35 40 45

Gln Arg Pro Arg Lys Lys Glu Asp Asn Val Leu Val Glu Ser His Glu
50 55 60

Lys Ser Leu Gly Glu Ala
65 70

<210> 76

<211> 69

<212> PRT

<213> Artificial Sequence

<220>

<223> amidated human PTH 1-69

<220>

<221> MOD_RES

<222> (69)..(69)

<223> AMIDATION

<400> 76

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala Gly Ser
35 40 45

Gln Arg Pro Arg Lys Lys Glu Asp Asn Val Leu Val Glu Ser His Glu
50 55 60

Lys Ser Leu Gly Glu
65

<210> 77

<211> 68

<212> PRT

<213> Artificial Sequence

<220>

<223> amidated human PTH 1-68

<220>

<221> MOD_RES

<222> (68)..(68)

<223> AMIDATION

<400> 77

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His

20 25 30
 Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala Gly Ser
 35 40 45
 Gln Arg Pro Arg Lys Lys Glu Asp Asn Val Leu Val Glu Ser His Glu
 50 55 60

Lys Ser Leu Gly
 65

<210> 78
 <211> 67
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> amidated human PTH 1-67

<220>
 <221> MOD_RES
 <222> (67)..(67)
 <223> AMIDATION

<400> 78

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
 1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
 20 25 30

Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala Gly Ser
 35 40 45

Gln Arg Pro Arg Lys Lys Glu Asp Asn Val Leu Val Glu Ser His Glu
 50 55 60

Lys Ser Leu
 65

<210> 79
<211> 66
<212> PRT
<213> Artificial Sequence

<220>
<223> amidated human PTH 1-66

<220>
<221> MOD_RES
<222> (66)..(66)
<223> AMIDATION

<400> 79

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala Gly Ser
35 40 45

Gln Arg Pro Arg Lys Lys Glu Asp Asn Val Leu Val Glu Ser His Glu
50 55 60

Lys Ser
65

<210> 80
<211> 65
<212> PRT
<213> Artificial Sequence

<220>
<223> amidated human PTH 1-65

<220>
<221> MOD_RES
<222> (65)..(65)
<223> AMIDATION

<400> 80

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala Gly Ser
35 40 45

Gln Arg Pro Arg Lys Lys Glu Asp Asn Val Leu Val Glu Ser His Glu
50 55 60

Lys
65

<210> 81

<211> 64

<212> PRT

<213> Artificial Sequence

<220>

<223> amidated human PTH 1-64

<220>

<221> MOD_RES

<222> (64)..(64)

<223> AMIDATION

<400> 81

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala Gly Ser
35 40 45

Gln Arg Pro Arg Lys Lys Glu Asp Asn Val Leu Val Glu Ser His Glu
50 55 60

<210> 82
<211> 63
<212> PRT
<213> Artificial Sequence

<220>
<223> amidated human PTH 1-63

<220>
<221> MOD_RES
<222> (63)..(63)
<223> AMIDATION

<400> 82

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala Gly Ser
35 40 45

Gln Arg Pro Arg Lys Lys Glu Asp Asn Val Leu Val Glu Ser His
50 55 60

<210> 83
<211> 62
<212> PRT
<213> Artificial Sequence

<220>
<223> amidated human PTH 1-62

<220>
<221> MOD_RES
<222> (62)..(62)
<223> AMIDATION

<400> 83

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala Gly Ser
35 40 45

Gln Arg Pro Arg Lys Lys Glu Asp Asn Val Leu Val Glu Ser
50 55 60

<210> 84

<211> 61

<212> PRT

<213> Artificial Sequence

<220>

<223> amidated human PTH 1-61

<220>

<221> MOD_RES

<222> (61)..(61)

<223> AMIDATION

<400> 84

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala Gly Ser
35 40 45

Gln Arg Pro Arg Lys Lys Glu Asp Asn Val Leu Val Glu
50 55 60

<210> 85
<211> 60
<212> PRT
<213> Artificial Sequence

<220>
<223> amidated human PTH 1-60

<220>
<221> MOD_RES
<222> (60)..(60)
<223> ACETYLTATION

<400> 85

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala Gly Ser
35 40 45

Gln Arg Pro Arg Lys Lys Glu Asp Asn Val Leu Val
50 55 60

<210> 86
<211> 59
<212> PRT
<213> Artificial Sequence

<220>
<223> amidated human PTH 1-59

<220>
<221> MOD_RES
<222> (59)..(59)
<223> AMIDATION

<400> 86

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn

1	5	10	15												
Ser	Met	Glu	Arg	Val	Glu	Trp	Leu	Arg	Lys	Lys	Leu	Gln	Asp	Val	His
		20						25					30		
Asn	Phe	Val	Ala	Leu	Gly	Ala	Pro	Leu	Ala	Pro	Arg	Asp	Ala	Gly	Ser
		35					40					45			
Gln	Arg	Pro	Arg	Lys	Lys	Glu	Asp	Asn	Val	Leu					
	50					55									

<210> 87
 <211> 58
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> amidated human PTH 1-58

<220>
 <221> MOD_RES
 <222> (58)..(58)
 <223> AMIDATION

<400> 87

Ser	Val	Ser	Glu	Ile	Gln	Leu	Met	His	Asn	Leu	Gly	Lys	His	Leu	Asn
1				5					10					15	
Ser	Met	Glu	Arg	Val	Glu	Trp	Leu	Arg	Lys	Lys	Leu	Gln	Asp	Val	His
			20					25					30		
Asn	Phe	Val	Ala	Leu	Gly	Ala	Pro	Leu	Ala	Pro	Arg	Asp	Ala	Gly	Ser
		35					40					45			
Gln	Arg	Pro	Arg	Lys	Lys	Glu	Asp	Asn	Val						
	50					55									

<210> 88
 <211> 57
 <212> PRT

<213> Artificial Sequence

<220>

<223> amidated human PTH 1-57

<220>

<221> MOD_RES

<222> (57)..(57)

<223> AMIDATION

<400> 88

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala Gly Ser
35 40 45

Gln Arg Pro Arg Lys Lys Glu Asp Asn
50 55

<210> 89

<211> 56

<212> PRT

<213> Artificial Sequence

<220>

<223> amidated human PTH 1-56

<220>

<221> MOD_RES

<222> (56)..(56)

<223> AMIDATION

<400> 89

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His

20

25

30

Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala Gly Ser
 35 40 45

Gln Arg Pro Arg Lys Lys Glu Asp
 50 55

<210> 90
 <211> 55
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> amidated human PTH 1-55

<220>
 <221> MOD_RES
 <222> (55)..(55)
 <223> AMIDATION

<400> 90

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
 1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
 20 25 30

Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala Gly Ser
 35 40 45

Gln Arg Pro Arg Lys Lys Glu
 50 55

<210> 91
 <211> 54
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> amidated human PTH 1-54

<220>

<221> MOD_RES

<222> (54)..(54)

<223> AMIDATION

<400> 91

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala Gly Ser
35 40 45

Gln Arg Pro Arg Lys Lys
50

<210> 92

<211> 53

<212> PRT

<213> Artificial Sequence

<220>

<223> amidated human PTH 1-53

<220>

<221> MOD_RES

<222> (53)..(53)

<223> AMIDATION

<400> 92

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala Gly Ser

35

40

45

Gln Arg Pro Arg Lys
50

<210> 93
<211> 52
<212> PRT
<213> Artificial Sequence

<220>
<223> amidated human PTH 1-52

<220>
<221> MOD_RES
<222> (52)..(52)
<223> AMIDATION

<400> 93

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala Gly Ser
35 40 45

Gln Arg Pro Arg
50

<210> 94
<211> 51
<212> PRT
<213> Artificial Sequence

<220>
<223> amidated human PTH 1-51

<220>
<221> MOD_RES

<222> (51)..(51)

<223> AMIDATION

<400> 94

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala Gly Ser
35 40 45

Gln Arg Pro
50

<210> 95

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> amidated human PTH 1-50

<220>

<221> MOD_RES

<222> (50)..(50)

<223> AMIDATION

<400> 95

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala Gly Ser
35 40 45

Gln Arg

50

<210> 96
<211> 49
<212> PRT
<213> Artificial Sequence

<220>
<223> amidated human PTH 1-49

<220>
<221> MOD_RES
<222> (49)..(49)
<223> AMIDATION

<400> 96

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala Gly Ser
35 40 45

Gln

<210> 97
<211> 48
<212> PRT
<213> Artificial Sequence

<220>
<223> amidated human PTH 1-48

<220>
<221> MOD_RES
<222> (48)..(48)
<223> AMIDATION

<400> 97

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
 1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
 20 25 30

Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala Gly Ser
 35 40 45

<210> 98
 <211> 47
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> amidated human PTH 1-47

<220>
 <221> MOD_RES
 <222> (47)..(47)
 <223> AMIDATION

<400> 98

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
 1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
 20 25 30

Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala Gly
 35 40 45

<210> 99
 <211> 46
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> amidated human PTH 1-46

<220>

<221> MOD_RES

<222> (46)..(46)

<223> AMIDATION

<400> 99

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala
35 40 45

<210> 100

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> amidated human PTH 1-45

<220>

<221> MOD_RES

<222> (45)..(45)

<223> AMIDATION

<400> 100

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp
35 40 45

<210> 101

<211> 44

<212> PRT

<213> Artificial Sequence

<220>

<223> amidated human PTH 1-44

<220>

<221> MOD_RES

<222> (44)..(44)

<223> AMIDATION

<400> 101

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg
35 40

<210> 102

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> amidated human PTH 1-43

<220>

<221> MOD_RES

<222> (43)..(43)

<223> AMIDATION

<400> 102

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro

35

40

<210> 103
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> amidated human PTH 1-42

<220>
 <221> MOD_RES
 <222> (42)..(42)
 <223> AMIDATION

<400> 103

Ser	Val	Ser	Glu	Ile	Gln	Leu	Met	His	Asn	Leu	Gly	Lys	His	Leu	Asn
1				5					10					15	

Ser	Met	Glu	Arg	Val	Glu	Trp	Leu	Arg	Lys	Lys	Leu	Gln	Asp	Val	His
			20					25					30		

Asn	Phe	Val	Ala	Leu	Gly	Ala	Pro	Leu	Ala
		35					40		

<210> 104
 <211> 41
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> amidated human PTH 1-41

<220>
 <221> MOD_RES
 <222> (41)..(41)
 <223> AMIDATION

<400> 104

Ser	Val	Ser	Glu	Ile	Gln	Leu	Met	His	Asn	Leu	Gly	Lys	His	Leu	Asn
1				5					10					15	

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe Val Ala Leu Gly Ala Pro Leu
35 40

<210> 105
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> amidated human PTH 1-40

<220>
<221> MOD_RES
<222> (40)..(40)
<223> AMIDATION

<400> 105

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe Val Ala Leu Gly Ala Pro
35 40

<210> 106
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> amidated human PTH 1-39

<220>
<221> MOD_RES
<222> (39)..(39)
<223> AMIDATION

<400> 106

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe Val Ala Leu Gly Ala
35

<210> 107

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> amidated human PTH 1-38

<220>

<221> MOD_RES

<222> (38)..(38)

<223> AMIDATION

<400> 107

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe Val Ala Leu Gly
35

<210> 108

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> amidated human PTH 1-37

<220>

<221> MOD_RES

<222> (37)..(37)

<223> AMIDATION

<400> 108

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe Val Ala Leu
35

<210> 109

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> amidated human PTH 1-36

<220>

<221> MOD_RES

<222> (36)..(36)

<223> AMIDATION

<400> 109

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn Phe Val Ala
35

<210> 110

<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> amidated human PTH 1-35

<220>
<221> MOD_RES
<222> (35)..(35)
<223> AMIDATION

<400> 110

Ser	Val	Ser	Glu	Ile	Gln	Leu	Met	His	Asn	Leu	Gly	Lys	His	Leu	Asn
1				5					10					15	

Ser	Met	Glu	Arg	Val	Glu	Trp	Leu	Arg	Lys	Lys	Leu	Gln	Asp	Val	His
			20					25					30		

Asn	Phe	Val
		35

<210> 111
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> amidated human PTH 1-34

<220>
<221> MOD_RES
<222> (34)..(34)
<223> AMIDATION

<400> 111

Ser	Val	Ser	Glu	Ile	Gln	Leu	Met	His	Asn	Leu	Gly	Lys	His	Leu	Asn
1				5					10					15	

Ser	Met	Glu	Arg	Val	Glu	Trp	Leu	Arg	Lys	Lys	Leu	Gln	Asp	Val	His
			20					25					30		

Asn Phe

<210> 112
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> amidated human PTH 1-33

<220>
<221> MOD_RES
<222> (33)..(33)
<223> AMIDATION

<400> 112

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
20 25 30

Asn

<210> 113
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> amidated human PTH 1-32

<220>
<221> MOD_RES
<222> (32)..(32)
<223> AMIDATION

<400> 113

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn

1	5	10	15
Ser	Met	Glu	Arg
	Val	Glu	Trp
		Leu	Arg
			Lys
			Lys
			Leu
			Gln
			Asp
			Val
			His
	20	25	30

<210> 114
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> amidated human PTH 1-31

<220>
 <221> MOD_RES
 <222> (31)..(31)
 <223> AMIDATION

<400> 114

Ser	Val	Ser	Glu	Ile	Gln	Leu	Met	His	Asn	Leu	Gly	Lys	His	Leu	Asn
1				5					10					15	

Ser	Met	Glu	Arg	Val	Glu	Trp	Leu	Arg	Lys	Lys	Leu	Gln	Asp	Val
			20					25					30	

<210> 115
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> amidated human PTH 1-30

<220>
 <221> MOD_RES
 <222> (30)..(30)
 <223> AMIDATION

<400> 115

Ser	Val	Ser	Glu	Ile	Gln	Leu	Met	His	Asn	Leu	Gly	Lys	His	Leu	Asn
1				5					10					15	

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp
20 25 30

<210> 116
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> amidated human PTH 1-29

<220>
<221> MOD_RES
<222> (29)..(29)
<223> AMIDATION

<400> 116

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln
20 25

<210> 117
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> amidated human PTH 1-28

<220>
<221> MOD_RES
<222> (28)..(28)
<223> AMIDATION

<400> 117

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu

20

25

<210> 118
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> amidated human PTH 1-27

<220>
<221> MOD_RES
<222> (27)..(27)
<223> AMIDATION

<400> 118

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys
20 25

<210> 119
<211> 26
<212> PRT
<213> Artificial Sequence

<220>
<223> amidated human PTH 1-26

<220>
<221> MOD_RES
<222> (26)..(26)
<223> AMIDATION

<400> 119

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys
20 25

<210> 120
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> amidated human PTH 1-25

<220>
 <221> MOD_RES
 <222> (25)..(25)
 <223> AMIDATION

<400> 120

Ser	Val	Ser	Glu	Ile	Gln	Leu	Met	His	Asn	Leu	Gly	Lys	His	Leu	Asn
1				5					10					15	

Ser	Met	Glu	Arg	Val	Glu	Trp	Leu	Arg
		20					25	

<210> 121
 <211> 141
 <212> PRT
 <213> Homo sapiens

<400> 121

Ala	Val	Ser	Glu	His	Gln	Leu	Leu	His	Asp	Lys	Gly	Lys	Ser	Ile	Gln
1				5					10					15	

Asp	Leu	Arg	Arg	Arg	Phe	Phe	Leu	His	His	Leu	Ile	Ala	Glu	Ile	His
		20					25					30			

Thr	Ala	Glu	Ile	Arg	Ala	Thr	Ser	Glu	Val	Ser	Pro	Asn	Ser	Lys	Pro
		35				40						45			

Ser	Pro	Asn	Thr	Lys	Asn	His	Pro	Val	Arg	Phe	Gly	Ser	Asp	Asp	Glu
	50				55						60				

Gly	Arg	Tyr	Leu	Thr	Gln	Glu	Thr	Asn	Lys	Val	Glu	Thr	Tyr	Lys	Glu
65					70					75					80

Gln Pro Leu Lys Thr Pro Gly Lys Lys Lys Lys Gly Lys Pro Gly Lys
85 90 95

Arg Lys Glu Gln Glu Lys Lys Lys Arg Arg Thr Arg Ser Ala Trp Leu
100 105 110

Asp Ser Gly Val Thr Gly Ser Gly Leu Glu Gly Asp His Leu Ser Asp
115 120 125

Thr Ser Thr Thr Ser Leu Glu Leu Asp Ser Arg Arg His
130 135 140

<210> 122
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Artificial random coil

<400> 122

Gly Gly Pro Gly Gly Pro Gly Pro Gly Gly Pro Gly Gly Pro Gly Pro
1 5 10 15

Gly Gly Pro Gly
20