

eolf-seql
SEQUENCE LISTING

<110> Ascendis Pharma A/S

<120> PTH Prodrugs

<130> CPX70238PC

<160> 122

<170> PatentIn version 3.5

<210> 1

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<212> PRT

<213> Homo sapiens

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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 Ala Asp Lys Ala Asp Val Asn Val Leu Thr Lys
65 70 75 80

Ala Lys Ser Gln

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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 Val Leu Thr Lys
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Ala Lys Ser

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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

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35

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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
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Ala Lys

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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

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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 Val Leu Thr Lys
 65 70 75 80

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

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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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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
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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 Val
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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

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

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

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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
 65 70

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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 Ala Asp Lys Ala
 65 70

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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

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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

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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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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

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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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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

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

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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
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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
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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

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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

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

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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
 50 55 60

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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

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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

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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
 50 55 60

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

eolf-seql

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

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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
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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

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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
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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
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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
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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
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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

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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
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<210> 35
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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

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Gln Arg
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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

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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

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25

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

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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
35 40 45

<210> 39

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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

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45

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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
 35 40 45

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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
 35 40

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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
 35 40

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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
 35 40

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<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	

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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
		35					40

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eolf-seql

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

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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
35

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

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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
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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
 35

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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

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Asn Phe Val
35

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<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

eolf-seql

<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

eolf-seql

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

eolf-seql

<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	

eolf-seql

<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

eolf-seql

<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

eolf-seql

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

<210> 64
<211> 81
<212> PRT
<213> Artificial Sequence

<220>
<223> amidated human PTH 1-81

<220>
<221> MOD_RES
<222> (81)..(81)
<223> AMIDATION

<400> 64

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

eolf-seql

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> 65
<211> 80
<212> PRT
<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

eolf-seql

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

eolf-seql

<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	

eolf-seql

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

eolf-seql

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

eolf-seql

<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	

eolf-seql

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

eolf-seql

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

eolf-seql

<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	

eolf-seql

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

eolf-seql

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

eolf-seql

<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	

eolf-seql

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

eolf-seql

<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

eolf-seql

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

eolf-seql

<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

eolf-seql

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

eolf-seql

<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

eolf-seql

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

eolf-seql

<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

eolf-seql

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

eolf-seql

<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

eolf-seql

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

eolf-seql

<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	

eolf-seql

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

eolf-seql

<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

eolf-seql

<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		

eolf-seql

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

eolf-seql

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

eolf-seql

<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

eolf-seql

<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	

eolf-seql

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

eolf-seql

<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

eolf-seql

<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

eolf-seql

<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

eolf-seql

<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

eolf-seql

<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

eolf-seql

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