

PBD 00062_WO.ST25.txt
SEQUENCE LISTING

<110> Probiodrug AG

<120> NEW USE OF GLUTAMINYL CYCLASE INHIBITORS

<130> PBD 00062/wo

<160> 16

<170> PatentIn version 3.1

<210> 1

<211> 99

<212> PRT

<213> Homo sapiens

<400> 1

Met Lys Val Ser Ala Ala Leu Leu Cys Leu Leu Leu Ile Ala Ala Thr
1 5 10 15

Phe Ile Pro Gln Gly Leu Ala Gln Pro Asp Ala Ile Asn Ala Pro Val
20 25 30

Thr Cys Cys Tyr Asn Phe Thr Asn Arg Lys Ile Ser Val Gln Arg Leu
35 40 45

Ala Ser Tyr Arg Arg Ile Thr Ser Ser Lys Cys Pro Lys Glu Ala Val
50 55 60

Ile Phe Lys Thr Ile Val Ala Lys Glu Ile Cys Ala Asp Pro Lys Gln
65 70 75 80

Lys Trp Val Gln Asp Ser Met Asp His Leu Asp Lys Gln Thr Gln Thr
85 90 95

Pro Lys Thr

<210> 2

<211> 300

<212> DNA

<213> Homo sapiens

<400> 2

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aggaagatct cagtgcagag gctcgcgagc tatagaagaa tcaccagcag caagtgtccc	180
aaagaagctg tgatcttcaa gaccattgtg gccaaggaga tctgtgctga cccaagcag	240
aagtgggttc aggattccat ggaccacctg gacaagcaaa cccaaactcc gaagacttga	300

<210> 3

<211> 1086

<212> DNA

<213> human

<400> 3

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aattaccacc agccagccat tttgaattca tcggctcttc ggcaaattgc agaaggcacc	180
agtatctctg aaatgtggca aaatgactta cagccattgc tgatagagcg ataccggga	240
ttccctggaa gctatgctgc tcgtcagcac atcatgcagc gaattcagag gcttcaggct	300
gactgggtct tggaaataga caccttcttg agtcagacac cctatgggta ccggtctttc	360
tcaaatatca tcagcacctt caatcccact gctaaacgac atttggtcct cgcctgccac	420
tatgactcca agtatttttc cacttgaac aacagagtgt ttgtaggagc cactgattca	480
gccgtgccat gtgcaatgat gttggaactt gctcgtgcct tagacaagaa actcctttcc	540
ttaaagactg tttcagactc caagccagat ttgtcactcc agctgatctt ctttgatggt	600
gaagaggctt ttcttactg gtctcctcaa gattctctct atgggtctcg acacttagct	660
gcaaagatgg catcgacccc gcacccacct ggagcgagag gcaccagcca actgcatggc	720
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<210> 4

<211> 361

<212> PRT

<213> human

<400> 4

Met Ala Gly Gly Arg His Arg Arg Val Val Gly Thr Leu His Leu Leu
 1 5 10 15

Leu Leu Val Ala Ala Leu Pro Trp Ala Ser Arg Gly Val Ser Pro Ser
 20 25 30

Ala Ser Ala Trp Pro Glu Glu Lys Asn Tyr His Gln Pro Ala Ile Leu
 35 40 45

Asn Ser Ser Ala Leu Arg Gln Ile Ala Glu Gly Thr Ser Ile Ser Glu
 50 55 60

Met Trp Gln Asn Asp Leu Gln Pro Leu Leu Ile Glu Arg Tyr Pro Gly
 65 70 75 80

Ser Pro Gly Ser Tyr Ala Ala Arg Gln His Ile Met Gln Arg Ile Gln
 85 90 95

Arg Leu Gln Ala Asp Trp Val Leu Glu Ile Asp Thr Phe Leu Ser Gln
 100 105 110

Thr Pro Tyr Gly Tyr Arg Ser Phe Ser Asn Ile Ile Ser Thr Leu Asn
 115 120 125

Pro Thr Ala Lys Arg His Leu Val Leu Ala Cys His Tyr Asp Ser Lys
 130 135 140

Tyr Phe Ser His Trp Asn Asn Arg Val Phe Val Gly Ala Thr Asp Ser
 145 150 155 160

Ala Val Pro Cys Ala Met Met Leu Glu Leu Ala Arg Ala Leu Asp Lys
 165 170 175

Lys Leu Leu Ser Leu Lys Thr Val Ser Asp Ser Lys Pro Asp Leu Ser
 180 185 190

Leu Gln Leu Ile Phe Phe Asp Gly Glu Glu Ala Phe Leu His Trp Ser
 195 200 205

Pro Gln Asp Ser Leu Tyr Gly Ser Arg His Leu Ala Ala Lys Met Ala
 210 215 220

Ser Thr Pro His Pro Pro Gly Ala Arg Gly Thr Ser Gln Leu His Gly
 225 230 235 240

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Met Asp Leu Leu Val₂₄₅ Leu Leu Asp Leu Ile₂₅₀ Gly Ala Pro Asn₂₅₅ Pro Thr

Phe Pro Asn Phe₂₆₀ Phe Pro Asn Ser Ala₂₆₅ Arg Trp Phe Glu Arg₂₇₀ Leu Gln

Ala Ile Glu₂₇₅ His Glu Leu His Glu₂₈₀ Leu Gly Leu Leu Lys₂₈₅ Asp His Ser

Leu Glu₂₉₀ Gly Arg Tyr Phe Gln₂₉₅ Asn Tyr Ser Tyr Gly₃₀₀ Gly Val Ile Gln

Asp Asp His Ile Pro Phe₃₁₀ Leu Arg Arg Gly Val₃₁₅ Pro Val Leu His Leu₃₂₀

Ile Pro Ser Pro Phe₃₂₅ Pro Glu Val Trp His₃₃₀ Thr Met Asp Asp Asn₃₃₅ Glu

Glu Asn Leu Asp₃₄₀ Glu Ser Thr Ile Asp₃₄₅ Asn Leu Asn Lys Ile₃₅₀ Leu Gln

Val Phe Val₃₅₅ Leu Glu Tyr Leu His₃₆₀ Leu

<210> 5

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<212> DNA

<213> Artificial sequence

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<223> DNA primer

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<210> 6

<211> 32

<212> DNA

<213> Artificial sequence

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<223> DNA primer

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<210> 7

<211> 37

<212> DNA

<213> Artificial sequence

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<400> 7

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<223> DNA primer

<400> 8

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37

<210> 9

<211> 38

<212> DNA

<213> Artificial sequence

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<223> DNA primer

<400> 9

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38

<210> 10

<211> 38

<212> DNA

<213> Artificial sequence

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<223> DNA primer

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38

<210> 11

<211> 99

<212> PRT

<213> Homo sapiens

<400> 11

Met Lys Val Ser Ala Ala Leu Leu Cys Leu Leu Leu Met Ala Ala Thr
 1 5 10 15

Phe Ser Pro Gln Gly Leu Ala Gln Pro Asp Ser Val Ser Ile Pro Ile
 20 25 30

Thr Cys Cys Phe Asn Val Ile Asn Arg Lys Ile Pro Ile Gln Arg Leu
 35 40 45

Glu Ser Tyr Thr Arg Ile Thr Asn Ile Gln Cys Pro Lys Glu Ala Val
 50 55 60

Ile Phe Lys Thr Gln Arg Gly Lys Glu Val Cys Ala Asp Pro Lys Glu
 65 70 75 80

Arg Trp Val Arg Asp Ser Met Lys His Leu Asp Gln Ile Phe Gln Asn
 85 90 95

Leu Lys Pro

<210> 12

<211> 300

<212> DNA

<213> Homo sapiens

<400> 12

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aggaaaattc ctatccagag gctggagagc tacacaagaa tcaccaacat ccaatgtccc 180

aaggaagctg tgatcttcaa gacccaacgg ggcaaggagg tctgtgctga cccaaggag 240

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<210> 13

<211> 99

<212> PRT

<213> Homo sapiens

<400> 13

Met Lys Ala Ser Ala Ala Leu Leu Cys Leu Leu Leu Thr Ala Ala Ala
 1 5 10 15

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

Thr Cys Cys Tyr Arg Phe Ile Asn Lys Lys Ile Pro Lys Gln Arg Leu
 35 40 45

Glu Ser Tyr Arg Arg Thr Thr Ser Ser His Cys Pro Arg Glu Ala Val
 50 55 60

Ile Phe Lys Thr Lys Leu Asp Lys Glu Ile Cys Ala Asp Pro Thr Gln
 65 70 75 80

Lys Trp Val Gln Asp Phe Met Lys His Leu Asp Lys Lys Thr Gln Thr
 85 90 95

Pro Lys Leu

<210> 14

<211> 300

<212> DNA

<213> Homo sapiens

<400> 14

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cggaagctg taatcttcaa gaccaaactg gacaaggaga tctgtgctga cccacacag 240

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<211> 98

<212> PRT

<213> Homo sapiens

<400> 15

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Met Lys Val Ser Ala Val Leu Leu Cys Leu Leu Leu Met Thr Ala Ala
1 5 10 15

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

Thr Cys Cys Phe Thr Phe Ser Ser Lys Lys Ile Ser Leu Gln Arg Leu
35 40 45

Lys Ser Tyr Val Ile Thr Thr Ser Arg Cys Pro Gln Lys Ala Val Ile
50 55 60

Phe Arg Thr Lys Leu Gly Lys Glu Ile Cys Ala Asp Pro Lys Glu Lys
65 70 75 80

Trp Val Gln Asn Tyr Met Lys His Leu Gly Arg Lys Ala His Thr Leu
85 90 95

Lys Thr

<210> 16

<211> 297

<212> DNA

<213> Homo sapiens

<400> 16

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aagaagatct ccttgcaag gctgaagagc tatgtgatca ccaccagcag gtgtccccag	180
aaggctgtca tcttcagaac caaactgggc aaggagatct gtgctgaccc aaaggagaag	240
tgggtccaga attatatgaa acacctgggc cggaaagctc acaccctgaa gacttga	297