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SEQUENCE LISTING

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<120> MULTIVALENT AND MULTISPECIFIC DR5-BINDING FUSION PROTEINS

<130> INHI-021001WO 322124-2098

<140> PCT/US16/42862

<141> 2016-07-18

<150> US 62/193,309

<151> 2015-07-16

<160> 190

<170> PatentIn version 3.5

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<212> PRT

<213> Artificial Sequence

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<223> chemically synthesized

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Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
1 5 10 15

Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
20 25 30

Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp
35 40 45

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
50 55 60

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

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
85 90 95

Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
100 105 110

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu
115 120 125

Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
130 135 140

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
145 150 155 160

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe

165

175

Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn
180 185 190

Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
195 200 205

Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
210 215

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<223> chemically synthesized

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Pro Ala Pro Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys
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Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val
20 25 30

Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp
35 40 45

Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr
50 55 60

Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp
65 70 75 80

Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu
85 90 95

Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg
100 105 110

Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys
115 120 125

Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp
130 135 140

Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys
145 150 155 160

Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser
165 170 175

Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser
180 185 190

Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser
195 200 205

Leu Ser Leu Ser Pro Gly Lys
210 215

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Pro Ala Pro Pro Val Ala Gly Pro Ser Val Phe Leu Phe Pro Pro Lys
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Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val
20 25 30

Val Val Asp Val Ser His Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr
35 40 45

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

Gln Phe Asn Ser Thr Phe Arg Val Val Ser Val Leu Thr Val Val His
65 70 75 80

Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys
85 90 95

Gly Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Thr Lys Gly Gln
100 105 110

Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met
115 120 125

Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro
130 135 140

Ser Asp Ile Ser Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn
145 150 155 160

Tyr Lys Thr Thr Pro Pro Met Leu Asp Ser Asp Gly Ser Phe Phe Leu
165 170 175

Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val
180 185 190

Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln
 195 200 205

Lys Ser Leu Ser Leu Ser Pro Gly Lys
 210 215

<210> 4
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 <213> Artificial Sequence

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Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
 1 5 10 15

Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
 20 25 30

Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Gln Phe Lys Trp
 35 40 45

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
 50 55 60

Glu Gln Tyr Asn Ser Thr Phe Arg Val Val Ser Val Leu Thr Val Leu
 65 70 75 80

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
 85 90 95

Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Thr Lys Gly
 100 105 110

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu
 115 120 125

Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
 130 135 140

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Ser Gly Gln Pro Glu Asn
 145 150 155 160

Asn Tyr Asn Thr Thr Pro Pro Met Leu Asp Ser Asp Gly Ser Phe Phe
 165 170 175

Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn
 180 185 190

Ile Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn Arg Phe Thr
 195 200 205

Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
210 215

<210> 5
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<213> Artificial Sequence

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Pro Ala Pro Glu Phe Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
1 5 10 15

Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
20 25 30

Val Val Val Asp Val Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp
35 40 45

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
50 55 60

Glu Gln Phe Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
65 70 75 80

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
85 90 95

Lys Gly Leu Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
100 105 110

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu
115 120 125

Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
130 135 140

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
145 150 155 160

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
165 170 175

Leu Tyr Ser Arg Leu Thr Val Asp Lys Ser Arg Trp Gln Glu Gly Asn
180 185 190

Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
195 200 205

Gln Lys Ser Leu Ser Leu Ser Leu Gly Lys

210

215

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<220>
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Glu Pro Lys Ser Ser Asp Lys Thr His Thr Cys Pro Pro Cys
 1 5 10

<210> 7
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 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 7

Asp Lys Thr His Thr Cys Pro Pro Cys
 1 5

<210> 8
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 8

Glu Ser Lys Tyr Gly Pro Pro Cys Pro Pro Cys
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<210> 9
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 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 9

Gly Gln Gly Thr Leu Val Thr Val Lys Pro Gly Gly
 1 5 10

<210> 10
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<220>
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<400> 10

Gly Gln Gly Thr Leu Val Thr Val Glu Pro Gly Gly
 1 5 10

<210> 11
 <211> 6
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> chemically synthesized

<400> 11

Gly Gly Ser Gly Gly Ser
 1 5

<210> 12
 <211> 9
 <212> PRT
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<220>
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<400> 12

Gly Gly Ser Gly Gly Ser Gly Gly Ser
 1 5

<210> 13
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 <212> PRT
 <213> Artificial Sequence

<220>
 <223> chemically synthesized

<400> 13

Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly Ser
 1 5 10

<210> 14
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Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly Ser
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<400> 15

Gln Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val Gln Ala Gly Asp
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Leu Thr Phe Pro Asn Tyr
 20 25 30
 Gly Met Gly Trp Phe Arg Gln Ala Pro Gly Glu Glu Arg Glu Phe Leu
 35 40 45
 Ala Val Ile Tyr Trp Ser Gly Gly Thr Val Phe Tyr Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Ala Ala Lys Asn Met Val Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Lys Ser Asp Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Val Thr Ile Arg Gly Ala Ala Thr Gln Thr Trp Lys Tyr Asp Tyr
 100 105 110
 Trp Gly Arg Gly Thr Gln Val Thr Val Ser Ser
 115 120

<210> 16
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 <212> PRT
 <213> Artificial Sequence

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<400> 16

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Leu Thr Phe Pro Asn Tyr
 20 25 30
 Gly Met Ser Trp Phe Arg Gln Ala Pro Gly Lys Gly Leu Glu Phe Val
 35 40 45
 Ser Ala Ile Tyr Trp Ser Gly Gly Thr Val Tyr Tyr Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Val Thr Ile Arg Gly Ala Ala Thr Gln Thr Trp Lys Tyr Asp Tyr
 100 105 110

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 17
<211> 125
<212> PRT
<213> Artificial Sequence

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<400> 17

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Glu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Leu Thr Phe Pro Asn Tyr
20 25 30

Gly Met Ser Trp Phe Arg Gln Ala Pro Gly Lys Gly Leu Glu Phe Val
35 40 45

Ser Ala Ile Tyr Trp Ser Gly Gly Thr Val Tyr Tyr Ala Glu Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Val Thr Ile Arg Gly Ala Ala Thr Gln Thr Trp Lys Tyr Asp Tyr
100 105 110

Trp Gly Gln Gly Thr Leu Val Thr Val Lys Pro Gly Gly
115 120 125

<210> 18
<211> 123
<212> PRT
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<400> 18

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Glu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Leu Thr Phe Pro Asn Tyr
20 25 30

Gly Met Ser Trp Phe Arg Gln Ala Pro Gly Lys Gly Leu Glu Phe Val
35 40 45

Ser Ala Ile Tyr Trp Ser Gly Gly Thr Val Tyr Tyr Ala Glu Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Val Thr Ile Arg Gly Ala Ala Thr Gln Thr Trp Lys Tyr Asp Tyr
100 105 110

Trp Gly Gln Gly Thr Leu Val Thr Val Lys Pro
115 120

<210> 19
<211> 123
<212> PRT
<213> Artificial Sequence

<220>
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<400> 19

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Glu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Leu Thr Phe Pro Asn Tyr
20 25 30

Gly Met Ser Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
35 40 45

Ser Ala Ile Tyr Trp Ser Gly Gly Thr Val Tyr Tyr Ala Glu Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Val Thr Ile Arg Gly Ala Ala Thr Gln Thr Trp Lys Tyr Asp Tyr
100 105 110

Trp Gly Gln Gly Thr Gln Val Thr Val Lys Pro
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<210> 20
<211> 125
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<400> 20

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Glu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Leu Thr Phe Pro Asn Tyr
 20 25 30

Gly Met Ser Trp Phe Arg Gln Ala Pro Gly Lys Gly Leu Glu Phe Val
 35 40 45

Cys Ala Ile Tyr Trp Ser Gly Gly Thr Val Tyr Tyr Ala Glu Ser Val
 50 55 60

Lys Gly Arg Phe Thr Cys Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Val Thr Ile Arg Gly Ala Ala Thr Gln Thr Trp Lys Tyr Asp Tyr
 100 105 110

Trp Gly Gln Gly Thr Leu Val Thr Val Lys Pro Gly Gly
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<211> 124

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<400> 21

Gln Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
 1 5 10 15

Ser Leu Arg Leu Thr Cys Thr Ala Ser Gly Arg Thr Val Ser Asn Tyr
 20 25 30

Ala Met Gly Trp Phe Arg Gln Thr Pro Gly Lys Asp Arg Glu Phe Val
 35 40 45

Ala Ala Leu Asn Trp Ser Gly Asp Thr Thr Ser Tyr Ala Asp Ser Val
 50 55 60

Arg Gly Arg Phe Thr Ile Ser Arg Asp Asn Thr Arg Asn Thr Val Tyr
 65 70 75 80

Leu Gln Met Asp Ser Leu Lys Arg Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Ala Ala Gln Ser Phe Arg Arg Gly Gly Ala Pro Tyr Gly Asp Asn
 100 105 110

Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
 115 120

<210> 22
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 <213> Artificial Sequence

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 <223> chemically synthesized

<400> 22

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Thr Val Ser Asn Tyr
 20 25 30

Ala Met Ser Trp Phe Arg Gln Ala Pro Gly Lys Gly Leu Glu Phe Val
 35 40 45

Ser Ala Leu Asn Trp Gly Gly Asp Thr Thr Tyr Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Ala Ala Gln Ser Phe Arg Arg Gly Gly Ala Pro Tyr Gly Asp Asn
 100 105 110

Tyr Trp Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120 125

<210> 23
 <211> 126
 <212> PRT
 <213> Artificial Sequence

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 <223> chemically synthesized

<400> 23

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Glu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Thr Val Ser Asn Tyr
 20 25 30

Ala Met Ser Trp Phe Arg Gln Ala Pro Gly Lys Gly Leu Glu Phe Val
 35 40 45

Ser Ala Leu Asn Trp Gly Gly Asp Thr Thr Tyr Tyr Ala Glu Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Ala Ala Gln Ser Phe Arg Arg Gly Gly Ala Pro Tyr Gly Asp Asn
 100 105 110

Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Lys Pro Gly Gly
 115 120 125

<210> 24
 <211> 124
 <212> PRT
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<400> 24

Glu Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val Gln Ala Gly Asp
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Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Ala Leu Thr Gly Tyr
 20 25 30

His Met Ala Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
 35 40 45

Thr Tyr Gly Ile Trp Asp Arg Ala Gly Ala Ala Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Met Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr
 65 70 75 80

Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Ala Ser Met Ala Val Arg Thr Tyr Tyr Ser Pro Arg Ser Tyr Asp
 100 105 110

Ser Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
 115 120

<210> 25
 <211> 124
 <212> PRT

<213> Artificial Sequence

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<400> 25

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Ala Leu Thr Gly Tyr
20 25 30

His Met Ser Trp Phe Arg Gln Ala Pro Gly Lys Gly Arg Glu Phe Val
35 40 45

Ser Tyr Gly Ile Trp Asp Arg Ala Gly Ala Ala Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Ala Ser Met Ala Val Arg Thr Tyr Tyr Ser Pro Arg Ser Tyr Asp
100 105 110

Ser Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 26

<211> 124

<212> PRT

<213> Artificial Sequence

<220>

<223> chemically synthesized

<400> 26

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Ala Leu Thr Gly Tyr
20 25 30

His Met Ser Trp Phe Arg Gln Ala Pro Gly Lys Gly Leu Glu Phe Val
35 40 45

Ser Tyr Gly Ile Trp Asp Arg Ala Gly Ala Ala Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

Ala Ala Ser Met Ala Val Arg Thr Tyr Tyr Ser Pro Arg Ser Tyr Asp
100 105 110

Ser Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

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<210> 27
<211> 128
<212> PRT
<213> Artificial Sequence
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<400> 27

Glu Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Thr Phe Ser Ser Leu
20 25 30

Asp Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Ala Phe Val
35 40 45

Ala Ala Ile Ser Arg Ser Gly Asp Asn Ile Tyr Tyr Ala Glu Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Glu Asn Thr Thr Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Ser Ala Val Tyr Tyr Cys
85 90 95

Ala Val Asp Ser Gln Pro Thr Tyr Ser Gly Gly Val Tyr Tyr Pro Arg
100 105 110

Tyr Gly Met Asp Val Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
115 120 125

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<210> 28
<211> 10
<212> PRT
<213> Artificial sequence
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<220>
<223> chemically synthesized

<400> 28

Ala Ile Arg Trp Asn Glu Gly Asp Thr Tyr
1 5 10

<210> 29

<211> 128
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 29

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Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1           5           10

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Thr Phe Ser Ser Leu
          20           25           30

Asp Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Gly Arg Glu Phe Val
          35           40           45

Ser Ala Ile Ser Arg Ser Gly Asp Asn Ile Tyr Tyr Ala Asp Ser Val
          50           55           60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65           70           75           80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
          85           90           95

Ala Val Asp Ser Gln Pro Thr Tyr Ser Gly Gly Val Tyr Tyr Pro Arg
          100          105          110

Tyr Gly Met Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
          115          120          125

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<210> 30
 <211> 128
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 <213> Artificial Sequence

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<400> 30

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Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Glu Val Gln Pro Gly Gly
1           5           10

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Thr Phe Ser Ser Leu
          20           25           30

Asp Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Gly Arg Glu Phe Val
          35           40           45

Ser Ala Ile Ser Arg Ser Gly Asp Asn Ile Tyr Tyr Ala Glu Ser Val
          50           55           60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr
65           70           75           80

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Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Val Asp Ser Gln Pro Thr Tyr Ser Gly Gly Val Tyr Tyr Pro Arg
100 105 110

Tyr Gly Met Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val Lys Pro
115 120 125

<210> 31
<211> 12
<212> PRT
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<220>
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<400> 31

Ser Gly Ser Thr Phe Ser Ser Leu Asp Met Ser Trp
1 5 10

<210> 32
<211> 128
<212> PRT
<213> Artificial Sequence

<220>
<223> chemically synthesized

<400> 32

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Glu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Thr Phe Ser Ser Leu
20 25 30

Asp Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Gly Arg Glu Phe Val
35 40 45

Ser Ala Ile Ser Arg Ser Gly Asp Asn Ile Tyr Tyr Ala Glu Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Val Asp Thr Gln Pro Thr Tyr Ser Gly Gly Val Tyr Tyr Pro Arg
100 105 110

Tyr Gly Met Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val Lys Pro
115 120 125

<210> 33
 <211> 128
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> chemically synthesized

<400> 33

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Glu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Thr Phe Ser Ser Leu
 20 25 30

Asp Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Gly Arg Glu Phe Val
 35 40 45

Ser Ala Ile Ser Arg Ser Gly Asp Asn Ile Tyr Tyr Ala Glu Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Val Asp Ala Gln Pro Thr Tyr Ser Gly Gly Val Tyr Tyr Pro Arg
 100 105 110

Tyr Gly Met Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val Lys Pro
 115 120 125

<210> 34
 <211> 128
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 34

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Glu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Thr Phe Ser Ser Leu
 20 25 30

Asp Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Gly Arg Glu Phe Val
 35 40 45

Ser Ala Ile Ser Arg Ser Gly Asp Asn Ile Tyr Tyr Ala Glu Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Val Glu Ser Gln Pro Thr Tyr Ser Gly Gly Val Tyr Tyr Pro Arg
100 105 110

Tyr Gly Met Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val Lys Pro
115 120 125

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<220>
<223> chemically synthesized

<400> 35

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Glu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Thr Phe Ser Ser Leu
20 25 30

Asp Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Gly Arg Glu Phe Val
35 40 45

Ser Ala Ile Ser Arg Ser Gly Asp Asn Ile Tyr Tyr Ala Glu Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Val Asp Ser Gln Pro Thr Tyr Ser Gly Gly Val Tyr Tyr Pro Arg
100 105 110

Tyr Gly Tyr Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val Lys Pro
115 120 125

Gly Gly
130

<210> 36
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<220>
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<400> 36

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Glu Val Gln Pro Gly Gly
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 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Thr Phe Ser Ser Leu
 20 25 30
 Asp Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Gly Arg Glu Phe Val
 35 40 45
 Ser Ala Ile Ser Arg Ser Gly Asp Asn Ile Tyr Tyr Ala Glu Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Val Asp Ser Gln Pro Thr Tyr Ser Gly Gly Val Tyr Tyr Pro Arg
 100 105 110
 Tyr Gly Asp Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val Lys Pro
 115 120 125
 Gly Gly
 130

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 <223> chemically synthesized

<400> 37

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Glu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Thr Phe Ser Ser Leu
 20 25 30
 Asp Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Gly Arg Glu Phe Val
 35 40 45
 Ser Ala Ile Ser Arg Ser Gly Asp Asn Ile Tyr Tyr Ala Glu Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Val Asp Ser Gln Pro Thr Tyr Ser Gly Gly Val Tyr Tyr Pro Arg
100 105 110

Tyr Gly Leu Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val Lys Pro
115 120 125

Gly Gly
130

<210> 38
<211> 130
<212> PRT
<213> Artificial Sequence

<220>
<223> chemically synthesized

<400> 38

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Glu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Thr Phe Ser Ser Leu
20 25 30

Asp Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Gly Arg Glu Phe Val
35 40 45

Cys Ala Ile Ser Arg Ser Gly Asp Asn Ile Tyr Tyr Ala Glu Ser Val
50 55 60

Lys Gly Arg Phe Thr Cys Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Val Glu Ser Gln Pro Thr Tyr Ser Gly Gly Val Tyr Tyr Pro Arg
100 105 110

Tyr Gly Met Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val Lys Pro
115 120 125

Gly Gly
130

<210> 39
<211> 130
<212> PRT
<213> Artificial Sequence

<220>
<223> chemically synthesized

<400> 39

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Glu Val Gln Pro Gly Gly
1 5 10 15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Thr Phe Ser Ser Leu
20 25 30
Asp Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Gly Arg Glu Phe Val
35 40 45
Ser Ala Ile Ser Arg Ser Gly Asp Asn Ile Tyr Tyr Ala Glu Ser Val
50 55 60
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr
65 70 75 80
Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95
Ala Val Asp Ala Gln Pro Thr Tyr Ser Gly Gly Val Tyr Tyr Pro Arg
100 105 110
Tyr Gly Ala Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val Lys Pro
115 120 125
Gly Gly
130

<210> 40

<211> 130

<212> PRT

<213> Artificial Sequence

<220>

<223> chemically synthesized

<400> 40

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Glu Val Gln Pro Gly Gly
1 5 10 15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Thr Phe Ser Ser Leu
20 25 30
Asp Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Gly Arg Glu Phe Val
35 40 45
Ser Ala Ile Ser Arg Ser Gly Asp Asn Ile Tyr Tyr Ala Glu Ser Val
50 55 60
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr
65 70 75 80

Ala Val Asp Ala Gln Pro Thr Tyr Ser Gly Gly Val Tyr Tyr Pro Arg
100 105 110

Tyr Gly Glu Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val Lys Pro
115 120 125

Gly Gly
130

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<210> 41
<211> 130
<212> PRT
<213> Artificial sequence
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<220>
<223> chemically synthesized

<400> 41

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Glu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Thr Phe Ser Ser Leu
20 25 30

Asp Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Gly Arg Glu Phe Val
35 40 45

Ser Ala Ile Ser Arg Ser Gly Asp Asn Ile Tyr Tyr Ala Glu Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Val Asp Ala Gln Pro Thr Tyr Ser Gly Gly Val Tyr Tyr Pro Arg
100 105 110

Tyr Gly His Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val Lys Pro
115 120 125

Gly Gly
130

<210>	42
<211>	130
<212>	PRT
<213>	Artificial sequence

<220>
<223> chemically synthesized

<400> 42

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Glu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Thr Phe Ser Ser Leu
 20 25 30

Asp Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Gly Arg Glu Phe Val
 35 40 45

Ser Ala Ile Ser Arg Ser Gly Asp Asn Ile Tyr Tyr Ala Glu Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Val Asp Ala Gln Pro Thr Tyr Ser Gly Gly Val Tyr Tyr Pro Arg
 100 105 110

Tyr Gly Asn Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val Lys Pro
 115 120 125

Gly Gly
 130

<210> 43

<211> 130

<212> PRT

<213> Artificial Sequence

<220>

<223> chemically synthesized

<400> 43

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Glu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Thr Phe Ser Ser Leu
 20 25 30

Asp Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Gly Arg Glu Phe Val
 35 40 45

Ser Ala Ile Ser Arg Ser Gly Asp Asn Ile Tyr Tyr Ala Glu Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Val Asp Ala Gln Pro Thr Tyr Ser Gly Gly Val Tyr Tyr Pro Arg
100 105 110

Tyr Gly Pro Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val Lys Pro
115 120 125

Gly Gly
130

<210> 44
<211> 130
<212> PRT
<213> Artificial Sequence

<220>
<223> chemically synthesized

<400> 44

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Glu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Thr Phe Ser Ser Leu
20 25 30

Asp Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Gly Arg Glu Phe Val
35 40 45

Ser Ala Ile Ser Arg Ser Gly Asp Asn Ile Tyr Tyr Ala Glu Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Val Asp Ala Gln Pro Thr Tyr Ser Gly Gly Val Tyr Tyr Pro Arg
100 105 110

Tyr Gly Gln Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val Lys Pro
115 120 125

Gly Gly
130

<210> 45
<211> 130
<212> PRT
<213> Artificial Sequence

<220>
<223> chemically synthesized

<400> 45

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Glu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Thr Phe Ser Ser Leu
 20 25 30

Asp Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Gly Arg Glu Phe Val
 35 40 45

Ser Ala Ile Ser Arg Ser Gly Asp Asn Ile Tyr Tyr Ala Glu Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Val Asp Ala Gln Pro Thr Tyr Ser Gly Gly Val Tyr Tyr Pro Arg
 100 105 110

Tyr Gly Arg Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val Lys Pro
 115 120 125

Gly Gly
 130

<210> 46

<211> 130

<212> PRT

<213> Artificial Sequence

<220>

<223> chemically synthesized

<400> 46

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Glu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Thr Phe Ser Ser Leu
 20 25 30

Asp Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Gly Arg Glu Phe Val
 35 40 45

Ser Ala Ile Ser Arg Ser Gly Asp Asn Ile Tyr Tyr Ala Glu Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Val Asp Ala Gln Pro Thr Tyr Ser Gly Gly Val Tyr Tyr Pro Arg
100 105 110

Tyr Gly Ser Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val Lys Pro
115 120 125

Gly Gly
130

<210> 47
<211> 130
<212> PRT
<213> Artificial sequence

<220>
<223> chemically synthesized

<400> 47

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Glu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Thr Phe Ser Ser Leu
20 25 30

Asp Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Gly Arg Glu Phe Val
35 40 45

Ser Ala Ile Ser Arg Ser Gly Asp Asn Ile Tyr Tyr Ala Glu Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Val Asp Ala Gln Pro Thr Tyr Ser Gly Gly Val Tyr Tyr Pro Arg
100 105 110

Tyr Gly Thr Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val Lys Pro
115 120 125

Gly Gly
130

<210> 48
<211> 130
<212> PRT
<213> Artificial sequence

<220>
<223> chemically synthesized

<400> 48

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Glu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Thr Phe Ser Ser Leu
20 25 30

Asp Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Gly Arg Glu Phe Val
35 40 45

Ser Ala Ile Ser Arg Ser Gly Asp Asn Ile Tyr Tyr Ala Glu Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Val Asp Ala Gln Pro Thr Tyr Ser Gly Gly Val Tyr Tyr Pro Arg
100 105 110

Tyr Gly Val Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val Lys Pro
115 120 125

Gly Gly
130

<210> 49

<211> 124

<212> PRT

<213> Artificial Sequence

<220>

<223> chemically synthesized

<400> 49

Glu Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Ala Phe Ser Asn Tyr
20 25 30

Ala Leu Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Ile
35 40 45

Ala Ala Ile Asn Trp Asn Gly Glu Asn Arg Tyr Gly Val Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Gln Asn Met Gly Tyr
65 70 75 80

Leu Gln Met Asn Asn Leu Lys Pro Glu Asp Thr Ala Val Tyr Arg Cys
 85 90 95

Ala Ala Ala Leu Ser Phe Arg Leu Gly Gly Glu Pro Tyr Gly Asp Ala
 100 105 110

Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
 115 120

<210> 50
 <211> 124
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> chemically synthesized

<400> 50

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Ala Phe Ser Asn Tyr
 20 25 30

Ala Met Ser Trp Phe Arg Gln Ala Pro Gly Lys Gly Leu Glu Phe Val
 35 40 45

Ser Ala Ile Asn Trp Asn Gly Glu Asn Arg Tyr Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Ala Ala Leu Ser Phe Arg Leu Gly Gly Glu Pro Tyr Gly Asp Ala
 100 105 110

Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 51
 <211> 122
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> chemically synthesized

<400> 51

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Val Ala Ser Gly Ser Ile Phe Thr Asn Asn

20

25

30

Ala Met Gly Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Asp Leu Val
 35 40 45

Ala Gln Ile Thr Met Gly Gly Gly Ile Thr Asn Tyr Ala Pro Ser Met
 50 55 60

Glu Gly Arg Phe Ala Ile Ser Arg Asp Asn Ala Lys Ser Thr Val Tyr
 65 70 75 80

Leu Gln Met Asn Asn Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Asn Ala Glu Val Lys Ser Ala Asp Trp Gly Ala Tyr Ala Asn Tyr Trp
 100 105 110

Gly Gln Gly Thr Gln Val Thr Val Ser Ser
 115 120

<210> 52

<211> 122

<212> PRT

<213> Artificial Sequence

<220>

<223> chemically synthesized

<400> 52

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Phe Thr Asn Asn
 20 25 30

Ala Met Ser Trp Tyr Arg Gln Ala Pro Gly Lys Gly Leu Glu Leu Val
 35 40 45

Ser Ala Ile Thr Met Gly Gly Gly Ile Thr Tyr Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Asn Ala Glu Val Lys Ser Ala Asp Trp Gly Ala Tyr Ala Asn Tyr Trp
 100 105 110

Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 53
 <211> 122
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> chemically synthesized

<400> 53

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Phe Thr Asn Asn
 20 25 30

Ala Met Ser Trp Tyr Arg Gln Ala Pro Gly Lys Gly Arg Glu Leu Val
 35 40 45

Ser Gln Ile Thr Met Gly Gly Gly Ile Thr Tyr Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Asn Ala Glu Val Lys Ser Ala Asp Trp Gly Ala Tyr Ala Asn Tyr Trp
 100 105 110

Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 54
 <211> 125
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> chemically synthesized

<400> 54

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Ser Ile Ser Asn Tyr
 20 25 30

Ala Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Leu
 35 40 45

Ala Ala Ser Val Trp Asn Asn Gly Gly Asn Tyr Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ala Ser Arg Asp Asp Ala Lys Ser Thr Ala Tyr

65

70

80

Leu Gln Met Ser Arg Leu Arg Pro Glu Asp Thr Gly Ile Tyr Tyr Cys
85 90 95

Val Val Ala Arg Thr Pro Glu Thr Pro Ile Thr Ser Ala Arg Gly Ala
100 105 110

Asn Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
115 120 125

<210> 55
<211> 125
<212> PRT
<213> Artificial Sequence

<220>
<223> chemically synthesized

<400> 55

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Ser Ile Ser Asn Tyr
20 25 30

Ala Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
35 40 45

Ser Ala Ser Val Trp Asn Asn Gly Gly Asn Tyr Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Val Val Ala Arg Thr Pro Glu Thr Pro Ile Thr Ser Ala Arg Gly Ala
100 105 110

Asn Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120 125

<210> 56
<211> 127
<212> PRT
<213> Artificial Sequence

<220>
<223> chemically synthesized

<400> 56

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Glu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Ser Ile Ser Asn Tyr
20 25 30

Ala Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
35 40 45

Ser Ala Ser Val Trp Asn Asn Gly Gly Asn Tyr Tyr Ala Glu Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Val Val Ala Arg Thr Pro Glu Thr Pro Ile Thr Ser Ala Arg Gly Ala
100 105 110

Asn Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Lys Pro Gly Gly
115 120 125

<210> 57
<211> 127
<212> PRT
<213> Artificial Sequence

<220>
<223> chemically synthesized

<400> 57

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Glu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Ser Ile Ser Asn Tyr
20 25 30

Ala Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
35 40 45

Ser Ala Ser Val Trp Asn Asn Gly Gly Asn Tyr Tyr Ala Glu Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ala Lys Ser Thr Leu Tyr
65 70 75 80

Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Val Val Ala Arg Thr Pro Glu Thr Pro Ile Thr Ser Ala Arg Gly Ala
100 105 110

Asn Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Lys Pro Gly Gly

115

120

125

<210> 58
 <211> 127
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> chemically synthesized

<400> 58

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Glu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Ser Ile Ser Asn Tyr
 20 25 30

Ala Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
 35 40 45

Ser Ala Ser Val Trp Asn Gln Gly Gly Asn Tyr Tyr Ala Glu Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Val Val Ala Arg Thr Pro Glu Thr Pro Ile Thr Ser Ala Arg Gly Ala
 100 105 110

Asn Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Lys Pro Gly Gly
 115 120 125

<210> 59
 <211> 127
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> chemically synthesized

<400> 59

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Glu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Ser Ile Ser Asn Tyr
 20 25 30

Ala Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
 35 40 45

Ser Ala Ser Val Trp Asn Asn Ala Gly Asn Tyr Tyr Ala Glu Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Val Val Ala Arg Thr Pro Glu Thr Pro Ile Thr Ser Ala Arg Gly Ala
100 105 110

Asn Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Lys Pro Gly Gly
115 120 125

<210> 60
<211> 127
<212> PRT
<213> Artificial Sequence

<220>
<223> chemically synthesized

<400> 60

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Glu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Ser Ile Ser Asn Tyr
20 25 30

Ala Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
35 40 45

Ser Ala Ser Val Trp Asn Gln Gly Gly Asn Tyr Tyr Ala Glu Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ala Lys Ser Thr Leu Tyr
65 70 75 80

Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Val Val Ala Arg Thr Pro Glu Thr Pro Ile Thr Ser Ala Arg Gly Ala
100 105 110

Asn Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Lys Pro Gly Gly
115 120 125

<210> 61
<211> 127
<212> PRT
<213> Artificial Sequence

<220>
<223> chemically synthesized

<400> 61

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Glu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Ser Ile Ser Asn Tyr
20 25 30

Ala Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
35 40 45

Ser Ala Ser Val Trp Asn Asn Ala Gly Asn Tyr Tyr Ala Glu Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ala Lys Ser Thr Leu Tyr
65 70 75 80

Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Val Val Ala Arg Thr Pro Glu Thr Pro Ile Thr Ser Ala Arg Gly Ala
100 105 110

Asn Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Lys Pro Gly Gly
115 120 125

<210> 62
<211> 127
<212> PRT
<213> Artificial Sequence

<220>
<223> chemically synthesized

<400> 62

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Ser Val Gln Ala Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Arg Ala Ala Ser Asp Tyr
20 25 30

Ala Val Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
35 40 45

Ala Ala Cys Asn Trp Ser Gly Glu Asp Thr Val Tyr Ala Tyr Ile Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Gly Asn Thr Val Ser
65 70 75 80

Leu Arg Met Ser Ser Leu Glu Pro Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Ala Ala Pro Ser Phe Ser Arg Ser Val Leu Asp Gly Asn Leu Ser
100 105 110

Gln Ile Asp Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
115 120 125

<210> 63
<211> 127
<212> PRT
<213> Artificial Sequence

<220>
<223> chemically synthesized

<400> 63

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Ala Ala Ser Asp Tyr
20 25 30

Ala Met Ser Trp Phe Arg Gln Ala Pro Gly Lys Gly Leu Glu Phe Val
35 40 45

Ser Ala Ile Asn Trp Gly Gly Glu Asp Thr Val Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Ala Ala Pro Ser Phe Ser Arg Ser Val Leu Asp Gly Asn Leu Ser
100 105 110

Gln Ile Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120 125

<210> 64
<211> 124
<212> PRT
<213> Artificial Sequence

<220>
<223> chemically synthesized

<400> 64

Gln Val Gln Leu Val Gln Ser Gly Gly Gly Leu Ala Gln Ala Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Val Ala Ser Gly Arg Thr Phe Thr Asn Tyr
20 25 30

Ala Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
35 40 45

Ala Ala Ile Asn Trp Ser Gly Asp Ser Thr Tyr His Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asp Ser Val Tyr
65 70 75 80

Leu Gln Met Thr Lys Leu Lys Pro Glu Asp Thr Ala Asp Tyr Tyr Cys
85 90 95

Ala Ser Ala Glu Ser Phe Ser Arg Gly Gly Leu Pro Tyr Gly Met Asn
100 105 110

Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
115 120

<210> 65
<211> 124
<212> PRT
<213> Artificial sequence

<220>
<223> chemically synthesized
<400> 65

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Thr Phe Thr Asn Tyr
20 25 30

Ala Met Ser Trp Phe Arg Gln Ala Pro Gly Lys Gly Leu Glu Phe Val
35 40 45

Ser Ala Ile Asn Trp Ser Gly Asp Ser Thr Tyr Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Ser Ala Glu Ser Phe Ser Arg Gly Gly Leu Pro Tyr Gly Met Asn
100 105 110

Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 66
<211> 126
<212> PRT
<213> Artificial sequence
<220>

<223> chemically synthesized

<400> 66

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Glu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Thr Phe Thr Asn Tyr
20 25 30

Ala Met Ser Trp Phe Arg Gln Ala Pro Gly Lys Gly Leu Glu Phe Val
35 40 45

Ser Ala Ile Asn Trp Ser Gly Asp Ser Thr Tyr Tyr Ala Glu Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Ser Ala Glu Ser Phe Ser Arg Gly Gly Leu Pro Tyr Gly Met Asn
100 105 110

Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Lys Pro Gly Gly
115 120 125

<210> 67

<211> 126

<212> PRT

<213> Artificial Sequence

<220>

<223> chemically synthesized

<400> 67

Gln Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Val Ser Thr Phe Gly Thr Ser
20 25 30

Pro Val Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
35 40 45

Ser Ala Ile Arg Trp Asp Gly Val Gly Ala Tyr Tyr Ala Asp Ser Val
50 55 60

Arg Gly Arg Phe Lys Asn Ser Lys Asp Asn Ala Lys Arg Thr Ala Tyr
65 70 75 80

Leu Gln Met Asn Arg Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Leu Pro Arg Arg Gly Asp Ser Glu Leu Pro Ser Thr Val Lys Glu
100 105 110

Tyr Gly Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
115 120 125

<210> 68
<211> 126
<212> PRT
<213> Artificial Sequence

<220>
<223> chemically synthesized

<400> 68

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Glu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Val Ser Thr Phe Gly Thr Ser
20 25 30

Pro Val Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
35 40 45

Ser Ala Ile Arg Trp Glu Gly Val Gly Ala Tyr Tyr Ala Glu Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Leu Pro Arg Arg Gly Asp Ser Glu Leu Pro Ser Thr Val Lys Glu
100 105 110

Tyr Gly Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Lys Pro
115 120 125

<210> 69
<211> 126
<212> PRT
<213> Artificial Sequence

<220>
<223> chemically synthesized

<400> 69

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Val Ser Thr Phe Gly Thr Ser
20 25 30

Pro Val Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
 35 40 45

Ser Ala Ile Arg Trp Asp Gly Val Gly Ala Tyr Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Leu Pro Arg Arg Gly Asp Ser Glu Leu Pro Ser Thr Val Lys Glu
 100 105 110

Tyr Gly Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120 125

<210> 70
 <211> 128
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> chemically synthesized

<400> 70

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Glu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Val Ser Thr Phe Gly Thr Ser
 20 25 30

Pro Val Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
 35 40 45

Ser Ala Ile Arg Trp Asp Gly Val Gly Ala Tyr Tyr Ala Glu Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Leu Pro Arg Arg Gly Asp Ser Glu Leu Pro Ser Thr Val Lys Glu
 100 105 110

Tyr Gly Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Lys Pro Gly Gly
 115 120 125

<210> 71
 <211> 128
 <212> PRT

<213> Artificial Sequence

<220>

<223> chemically synthesized

<400> 71

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Glu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Val Ser Thr Phe Gly Thr Ser
20 25 30

Pro Val Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
35 40 45

Cys Ala Ile Arg Trp Glu Gly Val Gly Ala Tyr Tyr Ala Glu Ser Val
50 55 60

Lys Gly Arg Phe Thr Cys Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Leu Pro Arg Arg Gly Asp Ser Glu Leu Pro Ser Thr Val Lys Glu
100 105 110

Tyr Gly Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Lys Pro Gly Gly
115 120 125

<210> 72

<211> 128

<212> PRT

<213> Artificial Sequence

<220>

<223> chemically synthesized

<400> 72

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Glu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Val Ser Thr Phe Gly Thr Ser
20 25 30

Pro Val Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
35 40 45

Ser Ala Ile Arg Trp Asp Ala Val Gly Ala Tyr Tyr Ala Glu Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Lys Asp Asn Ala Lys Arg Thr Leu Tyr
65 70 75 80

Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Leu Pro Arg Arg Gly Asp Ser Glu Leu Pro Ser Thr Val Lys Glu
100 105 110

Tyr Gly Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Lys Pro Gly Gly
115 120 125

<210> 73
<211> 128
<212> PRT
<213> Artificial Sequence

<220>
<223> chemically synthesized

<400> 73

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Glu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Val Ser Thr Phe Gly Thr Ser
20 25 30

Pro Val Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
35 40 45

Ser Ala Ile Arg Trp Asp Gly Val Gly Ala Tyr Tyr Ala Glu Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Lys Asp Asn Ala Lys Arg Thr Leu Tyr
65 70 75 80

Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Leu Pro Arg Arg Gly Glu Ser Glu Leu Pro Ser Thr Val Lys Glu
100 105 110

Tyr Gly Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Lys Pro Gly Gly
115 120 125

<210> 74
<211> 128
<212> PRT
<213> Artificial Sequence

<220>
<223> chemically synthesized

<400> 74

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Glu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Val Ser Thr Phe Gly Thr Ser

<210> 76
 <211> 128
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> chemically synthesized

<400> 76

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Glu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Val Ser Thr Phe Gly Thr Ser
 20 25 30

Pro Val Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
 35 40 45

Ser Ala Ile Arg Trp Glu Gly Val Gly Ala Tyr Tyr Ala Glu Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Lys Asp Asn Ala Lys Arg Thr Leu Tyr
 65 70 75 80

Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Leu Pro Arg Arg Gly Glu Ser Glu Leu Pro Ser Thr Val Lys Glu
 100 105 110

Tyr Gly Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Lys Pro Gly Gly
 115 120 125

<210> 77
 <211> 128
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> chemically synthesized

<400> 77

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Glu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Val Ser Thr Phe Gly Thr Ser
 20 25 30

Pro Val Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
 35 40 45

Ser Ala Ile Arg Trp Glu Gly Val Gly Ala Tyr Tyr Ala Glu Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Lys Asp Asn Ala Lys Arg Thr Leu Tyr

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

Ser Leu Arg Leu Ser Cys Gln Val Ser Gly Arg Thr Leu Ser Ala Tyr
20 25 30

Leu Met Ala Trp Phe Arg Gln Ala Pro Asn Lys Val Arg Glu Tyr Leu
35 40 45

Gly Arg Ile Arg Trp Asn Glu Gly Asp Thr Tyr Tyr Pro Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Lys Asp Asp Ala Lys Asn Thr Val Tyr
65 70 75 80

Leu Arg Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Ala Arg Ser Ile Phe Asn Pro Ser Asp Gln Tyr Val Tyr Trp Gly
100 105 110

Gln Gly Thr Gln Val Thr Val Ser Ser
115 120

<210> 80
<211> 121
<212> PRT
<213> Artificial sequence

<220>
<223> chemically synthesized

<400> 80

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Thr Leu Ser Ala Tyr
20 25 30

Leu Met Ser Trp Phe Arg Gln Ala Pro Gly Lys Gly Leu Glu Tyr Val
35 40 45

Ser Ala Ile Arg Trp Asn Glu Gly Asp Thr Tyr Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Ala Arg Ser Ile Phe Asn Pro Ser Asp Gln Tyr Val Tyr Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser

115

120

<210> 81
 <211> 121
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> chemically synthesized

<400> 81

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Val Ser Gly Arg Thr Leu Ser Ala Tyr
 20 25 30

Leu Met Ser Trp Phe Arg Gln Ala Pro Gly Lys Gly Arg Glu Tyr Val
 35 40 45

Ser Arg Ile Arg Trp Asn Glu Gly Asp Thr Tyr Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Asn Ser Leu Lys Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Ala Arg Ser Ile Phe Asn Pro Ser Asp Gln Tyr Val Tyr Trp Gly
 100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 82
 <211> 128
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> chemically synthesized

<400> 82

Glu Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Thr Phe Ser Ser Leu
 20 25 30

Asp Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Ala Phe Val
 35 40 45

Ala Ala Ile Ser Arg Ser Gly Asp Asn Ile Tyr Tyr Ala Glu Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Glu Asn Thr Met Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Ser Ala Val Tyr Tyr Cys
85 90 95

Ala Val Glu Ser Gln Pro Thr Tyr Ser Gly Gly Val Tyr Tyr Pro Arg
100 105 110

Tyr Gly Met Asp Val Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
115 120 125

<210> 83
<211> 128
<212> PRT
<213> Artificial Sequence

<220>
<223> chemically synthesized

<400> 83

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Thr Phe Ser Ser Leu
20 25 30

Asp Met Ser Trp Phe Arg Gln Ala Pro Gly Lys Gly Leu Glu Phe Val
35 40 45

Ser Ala Ile Ser Arg Ser Gly Asp Asn Ile Tyr Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Val Glu Ser Gln Pro Thr Tyr Ser Gly Gly Val Tyr Tyr Pro Arg
100 105 110

Tyr Gly Met Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120 125

<210> 84
<211> 128
<212> PRT
<213> Artificial Sequence

<220>
<223> chemically synthesized

<400> 84

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Thr Phe Ser Ser Leu
20 25 30

Asp Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Gly Arg Glu Phe Val
35 40 45

Ser Ala Ile Ser Arg Ser Gly Asp Asn Ile Tyr Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Val Glu Ser Gln Pro Thr Tyr Ser Gly Gly Val Tyr Tyr Pro Arg
100 105 110

Tyr Gly Met Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120 125

<210> 85
<211> 123
<212> PRT
<213> Artificial Sequence

<220>
<223> chemically synthesized

<400> 85

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Glu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Leu Thr Phe Pro Asn Tyr
20 25 30

Gly Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
35 40 45

Ser Ala Ile Tyr Trp Ser Gly Gly Thr Val Phe Tyr Ala Glu Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr
65 70 75 80

Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Val Thr Ile Arg Gly Ala Ala Thr Gln Thr Trp Lys Tyr Asp Tyr
100 105 110

Trp Gly Gln Gly Thr Leu Val Thr Val Lys Pro
115 120

<210> 86
<211> 123
<212> PRT
<213> Artificial Sequence

<220>
<223> chemically synthesized

<400> 86

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Glu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Leu Thr Phe Pro Asn Tyr
20 25 30

Gly Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Leu
35 40 45

Ala Val Ile Tyr Trp Ser Gly Gly Thr Val Phe Tyr Ala Glu Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr
65 70 75 80

Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Val Thr Ile Arg Gly Ala Ala Thr Gln Thr Trp Lys Tyr Asp Tyr
100 105 110

Trp Gly Gln Gly Thr Leu Val Thr Val Lys Pro
115 120

<210> 87
<211> 123
<212> PRT
<213> Artificial Sequence

<220>
<223> chemically synthesized

<400> 87

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Glu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Leu Thr Phe Pro Asn Tyr
20 25 30

Gly Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
35 40 45

Ser Ala Ile Tyr Trp Ser Gly Gly Thr Val Tyr Tyr Ala Glu Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Val Thr Ile Arg Gly Ala Ala Thr Gln Thr Trp Lys Tyr Asp Tyr
100 105 110

Trp Gly Gln Gly Thr Leu Val Thr Val Lys Pro
115 120

<210> 88
<211> 123
<212> PRT
<213> Artificial Sequence

<220>
<223> chemically synthesized

<400> 88

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Glu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Leu Thr Phe Pro Asn Tyr
20 25 30

Gly Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Leu
35 40 45

Ala Val Ile Tyr Trp Ser Gly Gly Thr Val Tyr Tyr Ala Glu Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Val Thr Ile Arg Gly Ala Ala Thr Gln Thr Trp Lys Tyr Asp Tyr
100 105 110

Trp Gly Gln Gly Thr Leu Val Thr Val Lys Pro
115 120

<210> 89
<211> 123
<212> PRT
<213> Artificial Sequence

<220>

<223> chemically synthesized

<400> 89

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Glu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Leu Thr Phe Pro Asn Tyr
 20 25 30

Gly Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
 35 40 45

Ser Ala Ile Tyr Trp Ser Gly Gly Thr Val Tyr Tyr Ala Glu Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr
 65 70 75 80

Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Val Thr Ile Arg Gly Ala Ala Thr Gln Thr Trp Lys Tyr Asp Tyr
 100 105 110

Trp Gly Gln Gly Thr Leu Val Thr Val Lys Pro
 115 120

<210> 90

<211> 123

<212> PRT

<213> Artificial Sequence

<220>

<223> chemically synthesized

<400> 90

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Glu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Leu Thr Phe Pro Asn Tyr
 20 25 30

Gly Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Leu
 35 40 45

Ala Val Ile Tyr Trp Ser Gly Gly Thr Val Tyr Tyr Ala Glu Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr
 65 70 75 80

Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Val Thr Ile Arg Gly Ala Ala Thr Gln Thr Trp Lys Tyr Asp Tyr
100 105 110

Trp Gly Gln Gly Thr Leu Val Thr Val Lys Pro
115 120

<210> 91
<211> 124
<212> PRT
<213> Artificial Sequence

<220>
<223> chemically synthesized

<400> 91

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Glu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Thr Val Ser Asn Tyr
20 25 30

Ala Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Asp Arg Glu Phe Val
35 40 45

Ser Ala Leu Asn Trp Gly Gly Asp Thr Thr Tyr Tyr Ala Glu Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Ala Ala Gln Ser Phe Arg Arg Gly Gly Ala Pro Tyr Gly Asp Asn
100 105 110

Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Lys Pro
115 120

<210> 92
<211> 256
<212> PRT
<213> Artificial Sequence

<220>
<223> chemically synthesized

<400> 92

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Glu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Leu Thr Phe Pro Asn Tyr
20 25 30

Gly Met Ser Trp Phe Arg Gln Ala Pro Gly Lys Gly Leu Glu Phe Val
 35 40 45

Cys Ala Ile Tyr Trp Ser Gly Gly Thr Val Tyr Tyr Ala Glu Ser Val
 50 55 60

Lys Gly Arg Phe Thr Cys Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Val Thr Ile Arg Gly Ala Ala Thr Gln Thr Trp Lys Tyr Asp Tyr
 100 105 110

Trp Gly Gln Gly Thr Leu Val Thr Val Lys Pro Gly Gly Ser Gly Gly
 115 120 125

Ser Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Glu Val Gln Pro Gly
 130 135 140

Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Leu Thr Phe Pro Asn
 145 150 155 160

Tyr Gly Met Ser Trp Phe Arg Gln Ala Pro Gly Lys Gly Leu Glu Phe
 165 170 175

Val Cys Ala Ile Tyr Trp Ser Gly Gly Thr Val Tyr Tyr Ala Glu Ser
 180 185 190

Val Lys Gly Arg Phe Thr Cys Ser Arg Asp Asn Ala Lys Asn Thr Leu
 195 200 205

Tyr Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr
 210 215 220

Cys Ala Val Thr Ile Arg Gly Ala Ala Thr Gln Thr Trp Lys Tyr Asp
 225 230 235 240

Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Lys Pro Gly Gly Gly Gly
 245 250 255

<210> 93
 <211> 256
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> chemically synthesized

<400> 93

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Glu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Leu Thr Phe Pro Asn Tyr
20 25 30

Gly Met Ser Trp Phe Arg Gln Ala Pro Gly Lys Gly Leu Glu Phe Val
35 40 45

Ser Ala Ile Tyr Trp Ser Gly Gly Thr Val Tyr Tyr Ala Glu Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Val Thr Ile Arg Gly Ala Ala Thr Gln Thr Trp Lys Tyr Asp Tyr
100 105 110

Trp Gly Gln Gly Thr Leu Val Thr Val Lys Pro Gly Gly Ser Gly Gly
115 120 125

Ser Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Glu Val Gln Pro Gly
130 135 140

Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Leu Thr Phe Pro Asn
145 150 155 160

Tyr Gly Met Ser Trp Phe Arg Gln Ala Pro Gly Lys Gly Leu Glu Phe
165 170 175

Val Ser Ala Ile Tyr Trp Ser Gly Gly Thr Val Tyr Tyr Ala Glu Ser
180 185 190

Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu
195 200 205

Tyr Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr
210 215 220

Cys Ala Val Thr Ile Arg Gly Ala Ala Thr Gln Thr Trp Lys Tyr Asp
225 230 235 240

Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Lys Pro Gly Gly Gly Gly
245 250 255

<210> 94
<211> 267
<212> PRT
<213> Artificial Sequence

<220>
<223> chemically synthesized

<400> 94

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Thr Phe Ser Ser Leu
 20 25 30
 Asp Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Gly Arg Glu Phe Val
 35 40 45
 Ser Ala Ile Ser Arg Ser Gly Asp Asn Ile Tyr Tyr Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Val Asp Ser Gln Pro Thr Tyr Ser Gly Gly Val Tyr Tyr Pro Arg
 100 105 110
 Tyr Gly Met Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val Ser Gly
 115 120 125
 Ser Gly Gly Gly Gly Ser Glu Val Gln Leu Leu Glu Ser Gly Gly Gly
 130 135 140
 Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly
 145 150 155 160
 Ser Thr Phe Ser Ser Leu Asp Met Gly Trp Phe Arg Gln Ala Pro Gly
 165 170 175
 Lys Gly Arg Glu Phe Val Ser Ala Ile Ser Arg Ser Gly Asp Asn Ile
 180 185 190
 Tyr Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn
 195 200 205
 Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp
 210 215 220
 Thr Ala Val Tyr Tyr Cys Ala Val Asp Ser Gln Pro Thr Tyr Ser Gly
 225 230 235 240
 Gly Val Tyr Tyr Pro Arg Tyr Gly Met Asp Val Trp Gly Gln Gly Thr
 245 250 255
 Leu Val Thr Val Ser Ser Ala Gly Gly Gly Gly
 260 265

<210> 95
 <211> 263
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> chemically synthesized

<400> 95

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Leu Thr Phe Pro Asn Tyr
 20 25 30

Gly Met Ser Trp Phe Arg Gln Ala Pro Gly Lys Gly Leu Glu Phe Val
 35 40 45

Ser Ala Ile Tyr Trp Ser Gly Gly Thr Val Tyr Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Val Thr Ile Arg Gly Ala Ala Thr Gln Thr Trp Lys Tyr Asp Tyr
 100 105 110

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Ser Gly
 115 120 125

Gly Ser Gly Gly Gly Gly Ser Glu Val Gln Leu Leu Glu Ser Gly Gly
 130 135 140

Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser
 145 150 155 160

Gly Leu Thr Phe Pro Asn Tyr Gly Met Ser Trp Phe Arg Gln Ala Pro
 165 170 175

Gly Lys Gly Leu Glu Phe Val Ser Ala Ile Tyr Trp Ser Gly Gly Thr
 180 185 190

Val Tyr Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp
 195 200 205

Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu
 210 215 220

Asp Thr Ala Val Tyr Tyr Cys Ala Val Thr Ile Arg Gly Ala Ala Thr
 225 230 235 240

Gln Thr Trp Lys Tyr Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val
 245 250 255

Ser Ser Ala Gly Gly Gly Gly
 260

<210> 96

<211> 266

<212> PRT

<213> Artificial Sequence

<220>

<223> chemically synthesized

<400> 96

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Leu Thr Phe Pro Asn Tyr
 20 25 30

Gly Met Ser Trp Phe Arg Gln Ala Pro Gly Lys Gly Leu Glu Phe Val
 35 40 45

Ser Ala Ile Tyr Trp Ser Gly Gly Thr Val Tyr Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Val Thr Ile Arg Gly Ala Ala Thr Gln Thr Trp Lys Tyr Asp Tyr
 100 105 110

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser
 115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln Leu Leu Glu
 130 135 140

Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys
 145 150 155 160

Ala Ala Ser Gly Leu Thr Phe Pro Asn Tyr Gly Met Ser Trp Phe Arg
 165 170 175

Gln Ala Pro Gly Lys Gly Leu Glu Phe Val Ser Ala Ile Tyr Trp Ser
 180 185 190

Gly Gly Thr Val Tyr Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile

195

200

205

Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu
 210 215 220

Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Val Thr Ile Arg Gly
 225 230 235 240

Ala Ala Thr Gln Thr Trp Lys Tyr Asp Tyr Trp Gly Gln Gly Thr Leu
 245 250 255

Val Thr Val Ser Ser Ala Gly Gly Gly Gly
 260 265

<210> 97

<211> 267

<212> PRT

<213> Artificial Sequence

<220>

<223> chemically synthesized

<400> 97

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Thr Phe Ser Ser Leu
 20 25 30

Asp Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Gly Arg Glu Phe Val
 35 40 45

Ser Ala Ile Ser Arg Ser Gly Asp Asn Ile Tyr Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Val Asp Ser Gln Pro Thr Tyr Ser Gly Gly Val Tyr Tyr Pro Arg
 100 105 110

Tyr Gly Met Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val Ser Gly
 115 120 125

Ser Gly Gly Gly Gly Ser Glu Val Gln Leu Leu Glu Ser Gly Gly Gly
 130 135 140

Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly
 145 150 155 160

Ser Thr Phe Ser Ser Leu Asp Met Gly Trp Phe Arg Gln Ala Pro Gly
165 170 175

Lys Gly Arg Glu Phe Val Ser Ala Ile Ser Arg Ser Gly Asp Asn Ile
180 185 190

Tyr Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn
195 200 205

Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp
210 215 220

Thr Ala Val Tyr Tyr Cys Ala Val Asp Ser Gln Pro Thr Tyr Ser Gly
225 230 235 240

Gly Val Tyr Tyr Pro Arg Tyr Gly Met Asp Val Trp Gly Gln Gly Thr
245 250 255

Leu Val Thr Val Ser Ser Ala Gly Gly Gly Gly
260 265

<210> 98
<211> 270
<212> PRT
<213> Artificial Sequence

<220>
<223> chemically synthesized

<400> 98

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Thr Phe Ser Ser Leu
20 25 30

Asp Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Gly Arg Glu Phe Val
35 40 45

Ser Ala Ile Ser Arg Ser Gly Asp Asn Ile Tyr Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Val Asp Ser Gln Pro Thr Tyr Ser Gly Gly Val Tyr Tyr Pro Arg
100 105 110

Tyr Gly Met Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln Leu Leu Glu Ser
130 135 140

Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala
145 150 155 160

Ala Ser Gly Ser Thr Phe Ser Ser Leu Asp Met Gly Trp Phe Arg Gln
165 170 175

Ala Pro Gly Lys Gly Arg Glu Phe Val Ser Ala Ile Ser Arg Ser Gly
180 185 190

Asp Asn Ile Tyr Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser
195 200 205

Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg
210 215 220

Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Val Asp Ser Gln Pro Thr
225 230 235 240

Tyr Ser Gly Gly Val Tyr Tyr Pro Arg Tyr Gly Met Asp Val Trp Gly
245 250 255

Gln Gly Thr Leu Val Thr Val Ser Ser Ala Gly Gly Gly Gly
260 265 270

<210> 99

<211> 273

<212> PRT

<213> Artificial Sequence

<220>

<223> chemically synthesized

<400> 99

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Thr Phe Ser Ser Leu
20 25 30

Asp Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Gly Arg Glu Phe Val
35 40 45

Ser Ala Ile Ser Arg Ser Gly Asp Asn Ile Tyr Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Val Asp Ser Gln Pro Thr Tyr Ser Gly Gly Val Tyr Tyr Pro Arg
100 105 110

Tyr Gly Met Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120 125

Gly Gly Gly Ser Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln Leu
130 135 140

Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu
145 150 155 160

Ser Cys Ala Ala Ser Gly Ser Thr Phe Ser Ser Leu Asp Met Gly Trp
165 170 175

Phe Arg Gln Ala Pro Gly Lys Gly Arg Glu Phe Val Ser Ala Ile Ser
180 185 190

Arg Ser Gly Asp Asn Ile Tyr Tyr Ala Asp Ser Val Lys Gly Arg Phe
195 200 205

Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn
210 215 220

Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Val Asp Ser
225 230 235 240

Gln Pro Thr Tyr Ser Gly Gly Val Tyr Tyr Pro Arg Tyr Gly Met Asp
245 250 255

Val Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Gly Gly Gly
260 265 270

Gly

<210> 100
<211> 276
<212> PRT
<213> Artificial Sequence

<220>
<223> chemically synthesized

<400> 100

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Thr Phe Ser Ser Leu
20 25 30

Asp Met Ser Trp Phe Arg Gln Ala Pro Gly Lys Gly Leu Glu Phe Val

35

40

45

Ser Ala Ile Ser Arg Ser Gly Asp Asn Ile Tyr Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Val Asp Ser Gln Pro Thr Tyr Ser Gly Gly Val Tyr Tyr Pro Arg
 100 105 110

Tyr Gly Met Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu
 130 135 140

Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser
 145 150 155 160

Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Thr Phe Ser Ser Leu Asp
 165 170 175

Met Ser Trp Phe Arg Gln Ala Pro Gly Lys Gly Leu Glu Phe Val Ser
 180 185 190

Ala Ile Ser Arg Ser Gly Asp Asn Ile Tyr Tyr Ala Asp Ser Val Lys
 195 200 205

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu
 210 215 220

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala
 225 230 235 240

Val Asp Ser Gln Pro Thr Tyr Ser Gly Gly Val Tyr Tyr Pro Arg Tyr
 245 250 255

Gly Met Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala
 260 265 270

Gly Gly Gly Gly
 275

<210> 101

<211> 259

<212> PRT

<213> Artificial Sequence

<220>

<223> chemically synthesized

<400> 101

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Ala Phe Ser Asn Tyr
20 25 30

Ala Met Ser Trp Phe Arg Gln Ala Pro Gly Lys Gly Leu Glu Phe Val
35 40 45

Ser Ala Ile Asn Trp Asn Gly Glu Asn Arg Tyr Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Ala Ala Leu Ser Phe Arg Leu Gly Gly Glu Pro Tyr Gly Asp Ala
100 105 110

Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Gly Ser Gly Gly Gly
115 120 125

Gly Ser Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro
130 135 140

Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Ala Phe Ser
145 150 155 160

Asn Tyr Ala Met Ser Trp Phe Arg Gln Ala Pro Gly Lys Gly Leu Glu
165 170 175

Phe Val Ser Ala Ile Asn Trp Asn Gly Glu Asn Arg Tyr Tyr Ala Asp
180 185 190

Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr
195 200 205

Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr
210 215 220

Tyr Cys Ala Ala Ala Leu Ser Phe Arg Leu Gly Gly Glu Pro Tyr Gly
225 230 235 240

Asp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Gly
245 250 255

Gly Gly Gly

<210> 102
 <211> 265
 <212> PRT
 <213> Artificial sequence

<220>
 <223> chemically synthesized

<400> 102

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Ala Phe Ser Asn Tyr
 20 25 30

Ala Met Ser Trp Phe Arg Gln Ala Pro Gly Lys Gly Leu Glu Phe Val
 35 40 45

Ser Ala Ile Asn Trp Asn Gly Glu Asn Arg Tyr Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Ala Ala Leu Ser Phe Arg Leu Gly Gly Glu Pro Tyr Gly Asp Ala
 100 105 110

Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Ser
 115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln Leu Leu Glu Ser Gly
 130 135 140

Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala
 145 150 155 160

Ser Gly Arg Ala Phe Ser Asn Tyr Ala Met Ser Trp Phe Arg Gln Ala
 165 170 175

Pro Gly Lys Gly Leu Glu Phe Val Ser Ala Ile Asn Trp Asn Gly Glu
 180 185 190

Asn Arg Tyr Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg
 195 200 205

Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala
 210 215 220

Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala Ala Leu Ser Phe Arg Leu
225 230 235 240

Gly Gly Glu Pro Tyr Gly Asp Ala Tyr Trp Gly Gln Gly Thr Leu Val
245 250 255

Thr Val Ser Ser Ala Gly Gly Gly Gly
260 265

<210> 103

<211> 268

<212> PRT

<213> Artificial Sequence

<220>

<223> chemically synthesized

<400> 103

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Ala Phe Ser Asn Tyr
20 25 30

Ala Met Ser Trp Phe Arg Gln Ala Pro Gly Lys Gly Leu Glu Phe Val
35 40 45

Ser Ala Ile Asn Trp Asn Gly Glu Asn Arg Tyr Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Ala Ala Leu Ser Phe Arg Leu Gly Gly Glu Pro Tyr Gly Asp Ala
100 105 110

Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly
115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln Leu Leu
130 135 140

Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser
145 150 155 160

Cys Ala Ala Ser Gly Arg Ala Phe Ser Asn Tyr Ala Met Ser Trp Phe
165 170 175

Arg Gln Ala Pro Gly Lys Gly Leu Glu Phe Val Ser Ala Ile Asn Trp
180 185 190

Asn Gly Glu Asn Arg Tyr Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr
195 200 205

Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser
210 215 220

Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala Ala Leu Ser
225 230 235 240

Phe Arg Leu Gly Gly Glu Pro Tyr Gly Asp Ala Tyr Trp Gly Gln Gly
245 250 255

Thr Leu Val Thr Val Ser Ser Ala Gly Gly Gly Gly
260 265

<210> 104

<211> 261

<212> PRT

<213> Artificial Sequence

<220>

<223> chemically synthesized

<400> 104

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Ser Ile Ser Asn Tyr
20 25 30

Ala Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
35 40 45

Ser Ala Ser Val Trp Asn Asn Gly Gly Asn Tyr Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Val Val Ala Arg Thr Pro Glu Thr Pro Ile Thr Ser Ala Arg Gly Ala
100 105 110

Asn Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Gly Ser Gly Gly
115 120 125

Gly Gly Ser Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln
130 135 140

Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Ser Ile
145 150 155 160

Ser Asn Tyr Ala Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg
165 170 175

Glu Phe Val Ser Ala Ser Val Trp Asn Asn Gly Gly Asn Tyr Tyr Ala
180 185 190

Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn
195 200 205

Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val
210 215 220

Tyr Tyr Cys Val Val Ala Arg Thr Pro Glu Thr Pro Ile Thr Ser Ala
225 230 235 240

Arg Gly Ala Asn Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
245 250 255

Ala Gly Gly Gly Gly
260

<210> 105
<211> 261
<212> PRT
<213> Artificial sequence

<220>
<223> chemically synthesized

<400> 105

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Lys Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Ser Ile Ser Asn Tyr
20 25 30

Ala Met Ser Trp Phe Arg Gln Ala Pro Gly Lys Gly Leu Glu Phe Val
35 40 45

Ser Ala Ser Val Trp Asn Asn Gly Gly Asn Tyr Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Val Val Ala Arg Thr Pro Glu Thr Pro Ile Thr Ser Ala Arg Gly Ala
100 105 110

Asn Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Gly Ser Gly Gly

115 120 125
 Gly Gly Ser Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln
 130 135 140
 Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Ser Ile
 145 150 155 160
 Ser Asn Tyr Ala Met Ser Trp Phe Arg Gln Ala Pro Gly Lys Gly Leu
 165 170 175
 Glu Phe Val Ser Ala Ser Val Trp Asn Asn Gly Gly Asn Tyr Tyr Ala
 180 185 190
 Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn
 195 200 205
 Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val
 210 215 220
 Tyr Tyr Cys Val Val Ala Arg Thr Pro Glu Thr Pro Ile Thr Ser Ala
 225 230 235 240
 Arg Gly Ala Asn Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 245 250 255
 Ala Gly Gly Gly Gly
 260

<210> 106
 <211> 264
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> chemically synthesized

<400> 106

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Ser Ile Ser Asn Tyr
 20 25 30
 Ala Met Ser Trp Phe Arg Gln Ala Pro Gly Lys Gly Leu Glu Phe Val
 35 40 45
 Ser Ala Ser Val Trp Asn Asn Gly Gly Asn Tyr Tyr Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Val Val Ala Arg Thr Pro Glu Thr Pro Ile Thr Ser Ala Arg Gly Ala
100 105 110

Asn Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly
115 120 125

Ser Gly Gly Gly Gly Ser Glu Val Gln Leu Leu Glu Ser Gly Gly Gly
130 135 140

Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly
145 150 155 160

Arg Ser Ile Ser Asn Tyr Ala Met Ser Trp Phe Arg Gln Ala Pro Gly
165 170 175

Lys Gly Leu Glu Phe Val Ser Ala Ser Val Trp Asn Asn Gly Gly Asn
180 185 190

Tyr Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn
195 200 205

Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp
210 215 220

Thr Ala Val Tyr Tyr Cys Val Val Ala Arg Thr Pro Glu Thr Pro Ile
225 230 235 240

Thr Ser Ala Arg Gly Ala Asn Tyr Trp Gly Gln Gly Thr Leu Val Thr
245 250 255

Val Ser Ser Ala Gly Gly Gly Gly
260

<210> 107

<211> 267

<212> PRT

<213> Artificial Sequence

<220>

<223> chemically synthesized

<400> 107

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Ser Ile Ser Asn Tyr
20 25 30

Ala Met Ser Trp Phe Arg Gln Ala Pro Gly Lys Gly Leu Glu Phe Val
35 40 45

Ser Ala Ser Val Trp Asn Asn Gly Gly Asn Tyr Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Val Val Ala Arg Thr Pro Glu Thr Pro Ile Thr Ser Ala Arg Gly Ala
100 105 110

Asn Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly
115 120 125

Ser Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln Leu Leu Glu Ser
130 135 140

Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala
145 150 155 160

Ala Ser Gly Arg Ser Ile Ser Asn Tyr Ala Met Ser Trp Phe Arg Gln
165 170 175

Ala Pro Gly Lys Gly Leu Glu Phe Val Ser Ala Ser Val Trp Asn Asn
180 185 190

Gly Gly Asn Tyr Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser
195 200 205

Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg
210 215 220

Ala Glu Asp Thr Ala Val Tyr Tyr Cys Val Val Ala Arg Thr Pro Glu
225 230 235 240

Thr Pro Ile Thr Ser Ala Arg Gly Ala Asn Tyr Trp Gly Gln Gly Thr
245 250 255

Leu Val Thr Val Ser Ser Ala Gly Gly Gly Gly
260 265

<210> 108

<211> 261

<212> PRT

<213> Artificial Sequence

<220>

<223> chemically synthesized

<400> 108

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Lys Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Ser Ile Ser Asn Tyr
 20 25 30
 Ala Met Ser Trp Phe Arg Gln Ala Pro Gly Lys Gly Leu Glu Phe Val
 35 40 45
 Ser Ala Ser Val Trp Asn Asn Gly Gly Asn Tyr Tyr Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Val Val Ala Arg Thr Pro Glu Thr Pro Ile Thr Ser Ala Arg Gly Ala
 100 105 110
 Asn Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Gly Ser Gly Gly
 115 120 125
 Gly Gly Ser Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln
 130 135 140
 Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Ser Ile
 145 150 155 160
 Ser Asn Tyr Ala Met Ser Trp Phe Arg Gln Ala Pro Gly Lys Gly Leu
 165 170 175
 Glu Phe Val Ser Ala Ser Val Trp Asn Asn Gly Gly Asn Tyr Tyr Ala
 180 185 190
 Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn
 195 200 205
 Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val
 210 215 220
 Tyr Tyr Cys Val Val Ala Arg Thr Pro Glu Thr Pro Ile Thr Ser Ala
 225 230 235 240
 Arg Gly Ala Asn Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 245 250 255
 Ala Gly Gly Gly Gly
 260

<210> 109
 <211> 263
 <212> PRT

<213> Artificial Sequence

<220>

<223> chemically synthesized

<400> 109

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Val Ser Thr Phe Gly Thr Ser
 20 25 30

Pro Val Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
 35 40 45

Ser Ala Ile Arg Trp Asp Gly Val Gly Ala Tyr Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Leu Pro Arg Arg Gly Asp Ser Glu Leu Pro Ser Thr Val Lys Glu
 100 105 110

Tyr Gly Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Gly Ser Gly
 115 120 125

Gly Gly Gly Ser Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val
 130 135 140

Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Val Ser Thr
 145 150 155 160

Phe Gly Thr Ser Pro Val Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu
 165 170 175

Arg Glu Phe Val Ser Ala Ile Arg Trp Asp Gly Val Gly Ala Tyr Tyr
 180 185 190

Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys
 195 200 205

Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala
 210 215 220

Val Tyr Tyr Cys Ala Leu Pro Arg Arg Gly Asp Ser Glu Leu Pro Ser
 225 230 235 240

Thr Val Lys Glu Tyr Gly Tyr Trp Gly Gln Gly Thr Leu Val Thr Val
 245 250 255

Ser Ser Ala Gly Gly Gly Gly
260

<210> 110

<211> 272

<212> PRT

<213> Artificial Sequence

<220>

<223> chemically synthesized

<400> 110

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Val Ser Thr Phe Gly Thr Ser
20 25 30

Pro Val Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
35 40 45

Ser Ala Ile Arg Trp Asp Gly Val Gly Ala Tyr Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Leu Pro Arg Arg Gly Asp Ser Glu Leu Pro Ser Thr Val Lys Glu
100 105 110

Tyr Gly Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly
115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln
130 135 140

Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg
145 150 155 160

Leu Ser Cys Ala Ala Ser Val Ser Thr Phe Gly Thr Ser Pro Val Gly
165 170 175

Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Ser Ala Ile
180 185 190

Arg Trp Asp Gly Val Gly Ala Tyr Tyr Ala Asp Ser Val Lys Gly Arg
195 200 205

Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met

210
 215
 220
 Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Leu Pro
 225 230 235 240
 Arg Arg Gly Asp Ser Glu Leu Pro Ser Thr Val Lys Glu Tyr Gly Tyr
 245 250 255
 Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Gly Gly Gly Gly
 260 265 270
 <210> 111
 <211> 265
 <212> PRT
 <213> Artificial Sequence
 <220>
 <223> chemically synthesized
 <400> 111
 Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Glu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Leu Thr Phe Pro Asn Tyr
 20 25 30
 Gly Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
 35 40 45
 Ser Ala Ile Tyr Trp Ser Gly Gly Thr Val Phe Tyr Ala Glu Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr
 65 70 75 80
 Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Val Thr Ile Arg Gly Ala Ala Thr Gln Thr Trp Lys Tyr Asp Tyr
 100 105 110
 Trp Gly Gln Gly Thr Leu Val Thr Val Lys Pro Gly Gly Ser Gly Gly
 115 120 125
 Ser Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Glu Val Gln Pro Gly
 130 135 140
 Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Leu Thr Phe Pro Asn
 145 150 155 160
 Tyr Gly Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe
 165 170 175

Val Ser Ala Ile Tyr Trp Ser Gly Gly Thr Val Phe Tyr Ala Glu Ser
180 185 190

Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val
195 200 205

Tyr Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr
210 215 220

Cys Ala Val Thr Ile Arg Gly Ala Ala Thr Gln Thr Trp Lys Tyr Asp
225 230 235 240

Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Lys Pro Gly Gly Gly Gly
245 250 255

Asp Lys Thr His Thr Cys Pro Pro Cys
260 265

<210> 112

<211> 265

<212> PRT

<213> Artificial Sequence

<220>

<223> chemically synthesized

<400> 112

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Glu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Leu Thr Phe Pro Asn Tyr
20 25 30

Gly Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Leu
35 40 45

Ala Val Ile Tyr Trp Ser Gly Gly Thr Val Phe Tyr Ala Glu Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr
65 70 75 80

Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Val Thr Ile Arg Gly Ala Ala Thr Gln Thr Trp Lys Tyr Asp Tyr
100 105 110

Trp Gly Gln Gly Thr Leu Val Thr Val Lys Pro Gly Gly Ser Gly Gly
115 120 125

Ser Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Glu Val Gln Pro Gly
130 135 140

Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Leu Thr Phe Pro Asn
145 150 155 160

Tyr Gly Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe
165 170 175

Leu Ala Val Ile Tyr Trp Ser Gly Gly Thr Val Phe Tyr Ala Glu Ser
180 185 190

Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val
195 200 205

Tyr Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr
210 215 220

Cys Ala Val Thr Ile Arg Gly Ala Ala Thr Gln Thr Trp Lys Tyr Asp
225 230 235 240

Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Lys Pro Gly Gly Gly Gly
245 250 255

Asp Lys Thr His Thr Cys Pro Pro Cys
260 265

<210> 113

<211> 265

<212> PRT

<213> Artificial Sequence

<220>

<223> chemically synthesized

<400> 113

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Glu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Leu Thr Phe Pro Asn Tyr
20 25 30

Gly Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
35 40 45

Ser Ala Ile Tyr Trp Ser Gly Gly Thr Val Tyr Tyr Ala Glu Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Val Thr Ile Arg Gly Ala Ala Thr Gln Thr Trp Lys Tyr Asp Tyr
100 105 110

Trp Gly Gln Gly Thr Leu Val Thr Val Lys Pro Gly Gly Ser Gly Gly
115 120 125
Ser Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Glu Val Gln Pro Gly
130 135 140
Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Leu Thr Phe Pro Asn
145 150 155 160
Tyr Gly Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe
165 170 175
Val Ser Ala Ile Tyr Trp Ser Gly Gly Thr Val Tyr Tyr Ala Glu Ser
180 185 190
Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu
195 200 205
Tyr Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr
210 215 220
Cys Ala Val Thr Ile Arg Gly Ala Ala Thr Gln Thr Trp Lys Tyr Asp
225 230 235 240
Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Lys Pro Gly Gly Gly Gly
245 250 255
Asp Lys Thr His Thr Cys Pro Pro Cys
260 265

<210> 114
<211> 265
<212> PRT
<213> Artificial Sequence
<220>
<223> chemically synthesized
<400> 114

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

Gly Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
 35 40 45
 Ser Ala Ile Tyr Trp Ser Gly Gly Thr Val Tyr Tyr Ala Glu Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr
 65 70 75 80
 Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Val Thr Ile Arg Gly Ala Ala Thr Gln Thr Trp Lys Tyr Asp Tyr
 100 105 110
 Trp Gly Gln Gly Thr Leu Val Thr Val Lys Pro Gly Gly Ser Gly Gly
 115 120 125
 Ser Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Glu Val Gln Pro Gly
 130 135 140
 Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Leu Thr Phe Pro Asn
 145 150 155 160
 Tyr Gly Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe
 165 170 175
 Val Ser Ala Ile Tyr Trp Ser Gly Gly Thr Val Tyr Tyr Ala Glu Ser
 180 185 190
 Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val
 195 200 205
 Tyr Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr
 210 215 220
 Cys Ala Val Thr Ile Arg Gly Ala Ala Thr Gln Thr Trp Lys Tyr Asp
 225 230 235 240
 Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Lys Pro Gly Gly Gly Gly
 245 250 255
 Asp Lys Thr His Thr Cys Pro Pro Cys
 260 265

<210> 116

<211> 265

<212> PRT

<213> Artificial Sequence

<220>

<223> chemically synthesized

<400> 116

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Glu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Leu Thr Phe Pro Asn Tyr
 20 25 30
 Gly Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Leu
 35 40 45
 Ala Val Ile Tyr Trp Ser Gly Gly Thr Val Tyr Tyr Ala Glu Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr
 65 70 75 80
 Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Val Thr Ile Arg Gly Ala Ala Thr Gln Thr Trp Lys Tyr Asp Tyr
 100 105 110
 Trp Gly Gln Gly Thr Leu Val Thr Val Lys Pro Gly Gly Ser Gly Gly
 115 120 125
 Ser Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Glu Val Gln Pro Gly
 130 135 140
 Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Leu Thr Phe Pro Asn
 145 150 155 160
 Tyr Gly Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe
 165 170 175
 Leu Ala Val Ile Tyr Trp Ser Gly Gly Thr Val Tyr Tyr Ala Glu Ser
 180 185 190
 Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val
 195 200 205
 Tyr Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr
 210 215 220
 Cys Ala Val Thr Ile Arg Gly Ala Ala Thr Gln Thr Trp Lys Tyr Asp
 225 230 235 240
 Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Lys Pro Gly Gly Gly Gly
 245 250 255
 Asp Lys Thr His Thr Cys Pro Pro Cys
 260 265

<210> 117
 <211> 267
 <212> PRT
 <213> Artificial sequence

<220>
 <223> chemically synthesized

<400> 117

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Glu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Thr Val Ser Asn Tyr
 20 25 30

Ala Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Asp Arg Glu Phe Val
 35 40 45

Ser Ala Leu Asn Trp Gly Gly Asp Thr Thr Tyr Tyr Ala Glu Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Ala Ala Gln Ser Phe Arg Arg Gly Gly Ala Pro Tyr Gly Asp Asn
 100 105 110

Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Lys Pro Gly Gly Ser Gly
 115 120 125

Gly Ser Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Glu Val Gln Pro
 130 135 140

Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Thr Val Ser
 145 150 155 160

Asn Tyr Ala Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Asp Arg Glu
 165 170 175

Phe Val Ser Ala Leu Asn Trp Gly Gly Asp Thr Thr Tyr Tyr Ala Glu
 180 185 190

Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr
 195 200 205

Leu Tyr Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr
 210 215 220

Tyr Cys Ala Ala Ala Gln Ser Phe Arg Arg Gly Gly Ala Pro Tyr Gly
 225 230 235 240

Asp Asn Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Lys Pro Gly Gly
 245 250 255

Gly Gly Asp Lys Thr His Thr Cys Pro Pro Cys
 260 265

<210> 118

<211> 270

<212> PRT

<213> Artificial Sequence

<220>

<223> chemically synthesized

<400> 118

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Glu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Thr Val Ser Asn Tyr
 20 25 30

Ala Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Asp Arg Glu Phe Val
 35 40 45

Ser Ala Leu Asn Trp Gly Gly Asp Thr Thr Tyr Tyr Ala Glu Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Ala Ala Gln Ser Phe Arg Arg Gly Gly Ala Pro Tyr Gly Asp Asn
 100 105 110

Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Lys Pro Gly Gly Ser Gly
 115 120 125

Gly Ser Gly Gly Ser Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Glu
 130 135 140

Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg
 145 150 155 160

Thr Val Ser Asn Tyr Ala Met Gly Trp Phe Arg Gln Ala Pro Gly Lys
 165 170 175

Asp Arg Glu Phe Val Ser Ala Leu Asn Trp Gly Gly Asp Thr Thr Tyr
 180 185 190

Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala
 195 200 205

Lys Asn Thr Leu Tyr Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr
210 215 220

Ala Val Tyr Tyr Cys Ala Ala Ala Gln Ser Phe Arg Arg Gly Gly Ala
225 230 235 240

Pro Tyr Gly Asp Asn Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Lys
245 250 255

Pro Gly Gly Gly Gly Asp Lys Thr His Thr Cys Pro Pro Cys
260 265 270

<210> 119

<211> 410

<212> PRT

<213> Artificial Sequence

<220>

<223> chemically synthesized

<400> 119

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Ser Ile Ser Asn Tyr
20 25 30

Ala Met Ser Trp Phe Arg Gln Ala Pro Gly Lys Gly Leu Glu Phe Val
35 40 45

Ser Ala Ser Val Trp Asn Asn Gly Gly Asn Tyr Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Val Val Ala Arg Thr Pro Glu Thr Pro Ile Thr Ser Ala Arg Gly Ala
100 105 110

Asn Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly
115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln Leu
130 135 140

Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu
145 150 155 160

Ser Cys Ala Ala Ser Gly Arg Ser Ile Ser Asn Tyr Ala Met Ser Trp

165

175

Phe Arg Gln Ala Pro Gly Lys Gly Leu Glu Phe Val Ser Ala Ser Val
180 185 190

Trp Asn Asn Gly Gly Asn Tyr Tyr Ala Asp Ser Val Lys Gly Arg Phe
195 200 205

Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn
210 215 220

Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Val Val Ala Arg
225 230 235 240

Thr Pro Glu Thr Pro Ile Thr Ser Ala Arg Gly Ala Asn Tyr Trp Gly
245 250 255

Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly
260 265 270

Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln Leu Leu Glu Ser Gly
275 280 285

Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala
290 295 300

Ser Gly Arg Ser Ile Ser Asn Tyr Ala Met Ser Trp Phe Arg Gln Ala
305 310 315 320

Pro Gly Lys Gly Leu Glu Phe Val Ser Ala Ser Val Trp Asn Asn Gly
325 330 335

Gly Asn Tyr Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg
340 345 350

Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala
355 360 365

Glu Asp Thr Ala Val Tyr Tyr Cys Val Val Ala Arg Thr Pro Glu Thr
370 375 380

Pro Ile Thr Ser Ala Arg Gly Ala Asn Tyr Trp Gly Gln Gly Thr Leu
385 390 395 400

Val Thr Val Ser Ser Ala Gly Gly Gly Gly
405 410

<210> 120
<211> 394
<212> PRT
<213> Artificial Sequence
<220>

<223> chemically synthesized

<400> 120

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Glu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Val Ser Thr Phe Gly Thr Ser
20 25 30

Pro Val Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
35 40 45

Cys Ala Ile Arg Trp Glu Gly Val Gly Ala Tyr Tyr Ala Glu Ser Val
50 55 60

Lys Gly Arg Phe Thr Cys Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Leu Pro Arg Arg Gly Asp Ser Glu Leu Pro Ser Thr Val Lys Glu
100 105 110

Tyr Gly Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Lys Pro Gly Gly
115 120 125

Ser Gly Gly Ser Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Glu Val
130 135 140

Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Val Ser Thr
145 150 155 160

Phe Gly Thr Ser Pro Val Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu
165 170 175

Arg Glu Phe Val Cys Ala Ile Arg Trp Glu Gly Val Gly Ala Tyr Tyr
180 185 190

Ala Glu Ser Val Lys Gly Arg Phe Thr Cys Ser Arg Asp Asn Ala Lys
195 200 205

Asn Thr Leu Tyr Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala
210 215 220

Val Tyr Tyr Cys Ala Leu Pro Arg Arg Gly Asp Ser Glu Leu Pro Ser
225 230 235 240

Thr Val Lys Glu Tyr Gly Tyr Trp Gly Gln Gly Thr Leu Val Thr Val
245 250 255

Lys Pro Gly Gly Ser Gly Gly Ser Glu Val Gln Leu Leu Glu Ser Gly

Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Leu Pro Arg Arg Gly Asp Ser Glu Leu Pro Ser Thr Val Lys Glu
 100 105 110
 Tyr Gly Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Lys Pro Gly Gly
 115 120 125
 Ser Gly Gly Ser Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Glu Val
 130 135 140
 Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Val Ser Thr
 145 150 155 160
 Phe Gly Thr Ser Pro Val Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu
 165 170 175
 Arg Glu Phe Val Ser Ala Ile Arg Trp Glu Gly Val Gly Ala Tyr Tyr
 180 185 190
 Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys
 195 200 205
 Asn Thr Leu Tyr Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala
 210 215 220
 Val Tyr Tyr Cys Ala Leu Pro Arg Arg Gly Asp Ser Glu Leu Pro Ser
 225 230 235 240
 Thr Val Lys Glu Tyr Gly Tyr Trp Gly Gln Gly Thr Leu Val Thr Val
 245 250 255
 Lys Pro Gly Gly Ser Gly Gly Ser Glu Val Gln Leu Leu Glu Ser Gly
 260 265 270
 Gly Gly Glu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala
 275 280 285
 Ser Val Ser Thr Phe Gly Thr Ser Pro Val Gly Trp Phe Arg Gln Ala
 290 295 300
 Pro Gly Lys Glu Arg Glu Phe Val Ser Ala Ile Arg Trp Glu Gly Val
 305 310 315 320
 Gly Ala Tyr Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg
 325 330 335
 Asp Asn Ala Lys Asn Thr Leu Tyr Leu Gln Met Ser Ser Leu Arg Ala
 340 345 350
 Glu Asp Thr Ala Val Tyr Tyr Cys Ala Leu Pro Arg Arg Gly Asp Ser
 355 360 365
 Glu Leu Pro Ser Thr Val Lys Glu Tyr Gly Tyr Trp Gly Gln Gly Thr

370

375

Leu Val Thr Val Lys Pro Gly Gly Gly Gly
385 390

<210> 122
<211> 400
<212> PRT
<213> Artificial Sequence

<220>
<223> chemically synthesized
<400> 122

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Glu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Thr Phe Ser Ser Leu
20 25 30

Asp Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Gly Arg Glu Phe Val
35 40 45

Cys Ala Ile Ser Arg Ser Gly Asp Asn Ile Tyr Tyr Ala Glu Ser Val
50 55 60

Lys Gly Arg Phe Thr Cys Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Val Glu Ser Gln Pro Thr Tyr Ser Gly Gly Val Tyr Tyr Pro Arg
100 105 110

Tyr Gly Met Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val Lys Pro
115 120 125

Gly Gly Ser Gly Gly Ser Glu Val Gln Leu Leu Glu Ser Gly Gly Gly
130 135 140

Glu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly
145 150 155 160

Ser Thr Phe Ser Ser Leu Asp Met Gly Trp Phe Arg Gln Ala Pro Gly
165 170 175

Lys Gly Arg Glu Phe Val Cys Ala Ile Ser Arg Ser Gly Asp Asn Ile
180 185 190

Tyr Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Cys Ser Arg Asp Asn
195 200 205

Ala Lys Asn Thr Leu Tyr Leu Gln Met Ser Ser Leu Arg Ala Glu Asp
 210 215 220

Thr Ala Val Tyr Tyr Cys Ala Val Glu Ser Gln Pro Thr Tyr Ser Gly
 225 230 235 240

Gly Val Tyr Tyr Pro Arg Tyr Gly Met Asp Val Trp Gly Gln Gly Thr
 245 250 255

Leu Val Thr Val Lys Pro Gly Gly Ser Gly Gly Ser Glu Val Gln Leu
 260 265 270

Leu Glu Ser Gly Gly Gly Glu Val Gln Pro Gly Gly Ser Leu Arg Leu
 275 280 285

Ser Cys Ala Ala Ser Gly Ser Thr Phe Ser Ser Leu Asp Met Gly Trp
 290 295 300

Phe Arg Gln Ala Pro Gly Lys Gly Arg Glu Phe Val Cys Ala Ile Ser
 305 310 315 320

Arg Ser Gly Asp Asn Ile Tyr Tyr Ala Glu Ser Val Lys Gly Arg Phe
 325 330 335

Thr Cys Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr Leu Gln Met Ser
 340 345 350

Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Val Glu Ser
 355 360 365

Gln Pro Thr Tyr Ser Gly Gly Val Tyr Tyr Pro Arg Tyr Gly Met Asp
 370 375 380

Val Trp Gly Gln Gly Thr Leu Val Thr Val Lys Pro Gly Gly Gly Gly
 385 390 395 400

<210> 123

<211> 400

<212> PRT

<213> Artificial Sequence

<220>

<223> chemically synthesized

<400> 123

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Glu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Thr Phe Ser Ser Leu
 20 25 30

Asp Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Gly Arg Glu Phe Val
 35 40 45

Ser Ala Ile Ser Arg Ser Gly Asp Asn Ile Tyr Tyr Ala Glu Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Val Glu Ser Gln Pro Thr Tyr Ser Gly Gly Val Tyr Tyr Pro Arg
 100 105 110
 Tyr Gly Met Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val Lys Pro
 115 120 125
 Gly Gly Ser Gly Gly Ser Glu Val Gln Leu Leu Glu Ser Gly Gly Gly
 130 135 140
 Glu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly
 145 150 155 160
 Ser Thr Phe Ser Ser Leu Asp Met Gly Trp Phe Arg Gln Ala Pro Gly
 165 170 175
 Lys Gly Arg Glu Phe Val Ser Ala Ile Ser Arg Ser Gly Asp Asn Ile
 180 185 190
 Tyr Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn
 195 200 205
 Ala Lys Asn Thr Leu Tyr Leu Gln Met Ser Ser Leu Arg Ala Glu Asp
 210 215 220
 Thr Ala Val Tyr Tyr Cys Ala Val Glu Ser Gln Pro Thr Tyr Ser Gly
 225 230 235 240
 Gly Val Tyr Tyr Pro Arg Tyr Gly Met Asp Val Trp Gly Gln Gly Thr
 245 250 255
 Leu Val Thr Val Lys Pro Gly Gly Ser Gly Gly Ser Glu Val Gln Leu
 260 265 270
 Leu Glu Ser Gly Gly Gly Glu Val Gln Pro Gly Gly Ser Leu Arg Leu
 275 280 285
 Ser Cys Ala Ala Ser Gly Ser Thr Phe Ser Ser Leu Asp Met Gly Trp
 290 295 300
 Phe Arg Gln Ala Pro Gly Lys Gly Arg Glu Phe Val Ser Ala Ile Ser
 305 310 315 320

Arg Ser Gly Asp Asn Ile Tyr Tyr Ala Glu Ser Val Lys Gly Arg Phe
325 330 335

Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr Leu Gln Met Ser
340 345 350

Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Val Glu Ser
355 360 365

Gln Pro Thr Tyr Ser Gly Gly Val Tyr Tyr Pro Arg Tyr Gly Met Asp
370 375 380

Val Trp Gly Gln Gly Thr Leu Val Thr Val Lys Pro Gly Gly Gly Gly
385 390 395 400

<210> 124

<211> 413

<212> PRT

<213> Artificial Sequence

<220>

<223> chemically synthesized

<400> 124

Gln Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Val Ser Thr Phe Gly Thr Ser
20 25 30

Pro Val Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
35 40 45

Ser Ala Ile Arg Trp Asp Gly Val Gly Ala Tyr Tyr Ala Asp Ser Val
50 55 60

Arg Gly Arg Phe Lys Asn Ser Lys Asp Asn Ala Lys Arg Thr Ala Tyr
65 70 75 80

Leu Gln Met Asn Arg Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Leu Pro Arg Arg Gly Asp Ser Glu Leu Pro Ser Thr Val Lys Glu
100 105 110

Tyr Gly Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Gly Gly
115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Val Gln
130 135 140

Leu Val Gln Ser Gly Gly Gly Leu Val Gln Ala Gly Gly Ser Leu Thr
145 150 155 160

Leu Ser Cys Ala Ala Ser Val Ser Thr Phe Gly Thr Ser Pro Val Gly
 165 170 175
 Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Ser Ala Ile
 180 185 190
 Arg Trp Asp Gly Val Gly Ala Tyr Tyr Ala Asp Ser Val Arg Gly Arg
 195 200 205
 Phe Lys Asn Ser Lys Asp Asn Ala Lys Arg Thr Ala Tyr Leu Gln Met
 210 215 220
 Asn Arg Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala Leu Pro
 225 230 235 240
 Arg Arg Gly Asp Ser Glu Leu Pro Ser Thr Val Lys Glu Tyr Gly Tyr
 245 250 255
 Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Gly Gly Gly Gly Ser
 260 265 270
 Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Val Gln Leu Val Gln
 275 280 285
 Ser Gly Gly Gly Leu Val Gln Ala Gly Gly Ser Leu Thr Leu Ser Cys
 290 295 300
 Ala Ala Ser Val Ser Thr Phe Gly Thr Ser Pro Val Gly Trp Phe Arg
 305 310 315 320
 Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Ser Ala Ile Arg Trp Asp
 325 330 335
 Gly Val Gly Ala Tyr Tyr Ala Asp Ser Val Arg Gly Arg Phe Lys Asn
 340 345 350
 Ser Lys Asp Asn Ala Lys Arg Thr Ala Tyr Leu Gln Met Asn Arg Leu
 355 360 365
 Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala Leu Pro Arg Arg Gly
 370 375 380
 Asp Ser Glu Leu Pro Ser Thr Val Lys Glu Tyr Gly Tyr Trp Gly Gln
 385 390 395 400
 Gly Thr Gln Val Thr Val Ser Ser Ala Gly Gly Gly Gly
 405 410

<210> 125
 <211> 593
 <212> PRT
 <213> Artificial Sequence

<220>

<223> chemically synthesized

<400> 125

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Thr Phe Asp Lys Ile Asn
20 25 30

Asn Met Gly Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Asp Leu Val
35 40 45

Ala Gln Ile Thr Pro Gly Gly Ile Thr Asp Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn
85 90 95

Ala Glu Ile Leu Lys Arg Ala Tyr Ile Asp Val Tyr Val Asn Tyr Trp
100 105 110

Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly
115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
130 135 140

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln
145 150 155 160

Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg
165 170 175

Leu Ser Cys Ala Ala Ser Gly Thr Phe Asp Lys Ile Asn Asn Met Gly
180 185 190

Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Asp Leu Val Ala Gln Ile
195 200 205

Thr Pro Gly Gly Ile Thr Asp Tyr Ala Asp Ser Val Lys Gly Arg Phe
210 215 220

Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn
225 230 235 240

Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn Ala Glu Ile
245 250 255

Leu Lys Arg Ala Tyr Ile Asp Val Tyr Val Asn Tyr Trp Gly Gln Gly
 260 265 270
 Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
 275 280 285
 Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
 290 295 300
 Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln Leu Leu Glu
 305 310 315 320
 Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys
 325 330 335
 Ala Ala Ser Gly Thr Phe Asp Lys Ile Asn Asn Met Gly Trp Tyr Arg
 340 345 350
 Gln Ala Pro Gly Lys Gln Arg Asp Leu Val Ala Gln Ile Thr Pro Gly
 355 360 365
 Gly Ile Thr Asp Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser
 370 375 380
 Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg
 385 390 395 400
 Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn Ala Glu Ile Leu Lys Arg
 405 410 415
 Ala Tyr Ile Asp Val Tyr Val Asn Tyr Trp Gly Gln Gly Thr Leu Val
 420 425 430
 Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
 435 440 445
 Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly
 450 455 460
 Gly Ser Gly Gly Gly Gly Ser Glu Val Gln Leu Leu Glu Ser Gly Gly
 465 470 475 480
 Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser
 485 490 495
 Gly Thr Phe Asp Lys Ile Asn Asn Met Gly Trp Tyr Arg Gln Ala Pro
 500 505 510
 Gly Lys Gln Arg Asp Leu Val Ala Gln Ile Thr Pro Gly Gly Ile Thr
 515 520 525

Asp Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn
530 535 540

Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu Asp
545 550 555 560

Thr Ala Val Tyr Tyr Cys Asn Ala Glu Ile Leu Lys Arg Ala Tyr Ile
565 570 575

Asp Val Tyr Val Asn Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
580 585 590

Ser

<210> 126

<211> 595

<212> PRT

<213> Artificial Sequence

<220>

<223> chemically synthesized

<400> 126

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Glu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Thr Phe Asp Lys Ile Asn
20 25 30

Asn Met Gly Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Asp Leu Val
35 40 45

Ala Gln Ile Thr Pro Gly Gly Ile Thr Asp Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn
85 90 95

Ala Glu Ile Leu Lys Arg Ala Tyr Ile Asp Val Tyr Val Asn Tyr Trp
100 105 110

Gly Gln Gly Thr Leu Val Thr Val Lys Pro Gly Gly Gly Gly Ser Gly
115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
130 135 140

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln
145 150 155 160

Leu Leu Glu Ser Gly Gly Gly Glu Val Gln Pro Gly Gly Ser Leu Arg
 165 170 175
 Leu Ser Cys Ala Ala Ser Gly Thr Phe Asp Lys Ile Asn Asn Met Gly
 180 185 190
 Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Asp Leu Val Ala Gln Ile
 195 200 205
 Thr Pro Gly Gly Ile Thr Asp Tyr Ala Asp Ser Val Lys Gly Arg Phe
 210 215 220
 Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn
 225 230 235 240
 Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn Ala Glu Ile
 245 250 255
 Leu Lys Arg Ala Tyr Ile Asp Val Tyr Val Asn Tyr Trp Gly Gln Gly
 260 265 270
 Thr Leu Val Thr Val Lys Pro Gly Gly Gly Gly Ser Gly Gly Gly Gly
 275 280 285
 Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
 290 295 300
 Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln Leu Leu Glu
 305 310 315 320
 Ser Gly Gly Gly Glu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys
 325 330 335
 Ala Ala Ser Gly Thr Phe Asp Lys Ile Asn Asn Met Gly Trp Tyr Arg
 340 345 350
 Gln Ala Pro Gly Lys Gln Arg Asp Leu Val Ala Gln Ile Thr Pro Gly
 355 360 365
 Gly Ile Thr Asp Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser
 370 375 380
 Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg
 385 390 395 400
 Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn Ala Glu Ile Leu Lys Arg
 405 410 415
 Ala Tyr Ile Asp Val Tyr Val Asn Tyr Trp Gly Gln Gly Thr Leu Val
 420 425 430

Thr Val Lys Pro Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
435 440 445

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly
450 455 460

Gly Ser Gly Gly Gly Gly Ser Glu Val Gln Leu Leu Glu Ser Gly Gly
465 470 475 480

Gly Glu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser
485 490 495

Gly Thr Phe Asp Lys Ile Asn Asn Met Gly Trp Tyr Arg Gln Ala Pro
500 505 510

Gly Lys Gln Arg Asp Leu Val Ala Gln Ile Thr Pro Gly Gly Ile Thr
515 520 525

Asp Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn
530 535 540

Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu Asp
545 550 555 560

Thr Ala Val Tyr Tyr Cys Asn Ala Glu Ile Leu Lys Arg Ala Tyr Ile
565 570 575

Asp Val Tyr Val Asn Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Lys
580 585 590

Pro Gly Gly
595

<210> 127

<211> 218

<212> PRT

<213> Artificial Sequence

<220>

<223> chemically synthesized

<400> 127

Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
1 5 10 15

Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
20 25 30

Val Val Val Asp Val Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp
35 40 45

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
50 55 60

Glu Gln Phe Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
65 70 75 80

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
85 90 95

Lys Gly Leu Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
100 105 110

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu
115 120 125

Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
130 135 140

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
145 150 155 160

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
165 170 175

Leu Tyr Ser Arg Leu Thr Val Asp Lys Ser Arg Trp Gln Glu Gly Asn
180 185 190

Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
195 200 205

Gln Lys Ser Leu Ser Leu Ser Leu Gly Lys
210 215

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Trp

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Ser Gly Arg Thr Val Ser Asn Tyr Ala Met
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Tyr Trp

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Ser Gly Arg Ala Leu Thr Gly Tyr His Met Ala Trp
1 5 10

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Trp

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Tyr Gly Met Asp Val Trp
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Tyr Gly Met Asp Val Trp
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Tyr Gly Met Asp Val Trp
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Tyr Gly Tyr Asp Val Trp
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Tyr Gly Thr Asp Val Trp
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Tyr Gly Val Asp Val Trp
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<400> 159

Ser Gly Arg Ala Phe Ser Asn Tyr Ala Leu Gly Trp
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<400> 161

Ala Ala Ala Leu Ser Phe Arg Leu Gly Gly Glu Pro Tyr Gly Asp Ala
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Tyr Trp

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Ser Gly Arg Ala Phe Ser Asn Tyr Ala Met Ser Trp
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<400> 163

Ser Gly Ser Ile Phe Thr Asn Asn Ala Met
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<400> 164

Gln Ile Thr Met Gly Gly Gly Ile Thr Asn
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<400> 165

Asn Ala Glu Val Lys Ser Ala Asp Trp Gly Ala Tyr Ala Asn Tyr Trp
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<210> 166
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<400> 166

Ala Ile Thr Met Gly Gly Gly Ile Thr Tyr
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Gln Ile Thr Met Gly Gly Gly Ile Thr Tyr
 1 5 10

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<400> 168

Ser Gly Arg Ser Ile Ser Asn Tyr Ala Met
 1 5 10

<210> 169
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<400> 169

Ala Ser Val Trp Asn Asn Gly Gly Asn Tyr
 1 5 10

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<400> 170

Val Val Ala Arg Thr Pro Glu Thr Pro Ile Thr Ser Ala Arg Gly Ala
 1 5 10 15

Asn Tyr Trp

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<400> 171

Ala Ser Val Trp Asn Gln Gly Gly Asn Tyr
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Ala Ser Val Trp Asn Asn Ala Gly Asn Tyr
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<400> 173

Ser Gly Arg Ala Ala Ser Asp Tyr Ala Val
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<210> 174

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<212> PRT

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<220>

<223> chemically synthesized

<400> 174

Ala Cys Asn Trp Ser Gly Glu Asp Thr Val
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<210> 175

<211> 21

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Ala Ala Ala Pro Ser Phe Ser Arg Ser Val Leu Asp Gly Asn Leu Ser
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Gln Ile Asp Tyr Trp
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<211> 10

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<400> 176

Ser Gly Arg Ala Ala Ser Asp Tyr Ala Met
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<400> 177

Ile Asn Trp Gly Gly Glu Asp Thr Val
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<223> chemically synthesized

<400> 178

Ser Gly Arg Thr Phe Thr Asn Tyr Ala Met
1 5 10

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<400> 179

Ala Ile Asn Trp Ser Gly Asp Ser Thr Tyr
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Tyr Trp

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<212> PRT

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<400> 181

Ser Val Ser Thr Phe Gly Thr Ser Pro Val
1 5 10

<210> 182

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<400> 182

Ala Ile Arg Trp Asp Gly Val Gly Ala Tyr
1 5 10

<210> 183
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<400> 183

Ala Leu Pro Arg Arg Gly Asp Ser Glu Leu Pro Ser Thr Val Lys Glu
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Tyr Gly Tyr Trp
 20

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<400> 184

Ala Ile Arg Trp Glu Gly Val Gly Ala Tyr
 1 5 10

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<400> 185

Ala Ile Arg Trp Asp Ala Val Gly Ala Tyr
 1 5 10

<210> 186
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<400> 186

Ala Leu Pro Arg Arg Gly Glu Ser Glu Leu Pro Ser Thr Val Lys Glu
 1 5 10 15

Tyr Gly Tyr Trp
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<400> 187

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Tyr Gly Tyr Trp
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<223> chemically synthesized

<400> 188

Ser Gly Arg Thr Leu Ser Ala Tyr Leu Met
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<210> 189

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<400> 189

Arg Ile Arg Trp Asn Glu Gly Asp Thr Tyr
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Ala Ala Arg Ser Ile Phe Asn Pro Ser Asp Gln Tyr Val Tyr Trp
1 5 10 15