SEQUENCE LISTING

<110> RHYTHM PHARMACEUTICALS, INC.

<120> METHODS OF TREATING MELANOCORTIN-4 RECEPTOR PATHWAY-ASSOCIATED DISORDERS

<130> R2054-7024WO

<140> PCT/US2021/052032
<141> 2021-09-24

<150> 63/082,867
<151> 2020-09-24

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<223> D-Phe

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1   5

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<210> 94
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<400> 94
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<210> 95

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<210> 140
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<210> 141
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<210> 142
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<223> Penicillamine

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<223> 4-aminobutyric acid

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<223> D-Ala

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<400> 153

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<400> 158
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1   5

<210> 159

<211> 18
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<400> 159
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1 5 10 15

Trp Lys

<210> 160
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<222> (16)..(16)
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1   5   10   15

Arg Trp Lys

<210> 161
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Arg Arg Arg

<210> 162
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<400> 163
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<223> D-Beta-(2-naphthyl)alanine

<400> 164
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1   5   10   15

Arg Arg Gln Arg Arg Arg
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<210> 166
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<223> Beta-Ala

<400> 166
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1   5   10   15

Gln Arg Arg Arg
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Lys Arg Arg Gln Arg Arg Arg
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<210> 168
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1 5 10 15

Lys Lys Arg Arg Gln Arg Arg Arg
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1 5 10 15

Lys Lys Arg Arg Gln Arg Arg Arg

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Lys Lys Arg Arg Gln Arg Arg Arg
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<400> 172
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1   5   10   15

Lys Lys Arg Arg Gln Arg Arg Arg
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1   5   10   15

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1   5   10   15

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1 5 10 15

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1 5 10 15

Lys Lys Arg Gln Arg Arg Arg Arg
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<222> (13)..(13)
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<400> 177
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1   5   10   15

Lys Lys Gln Arg Arg Arg Arg Arg
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1   5   10   15

Lys Gln Lys Arg Arg Arg Arg Arg
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1 5 10 15

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<210> 180
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1   5   10   15

Lys Lys Arg Arg Gln Arg Arg Arg
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<223> Beta-Ala

<400> 181
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1   5   10   15

Arg Arg Gln Arg Arg Arg
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<210> 182
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Arg Arg Gln Arg Arg Arg
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<400> 185
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Arg Arg Gln Arg Arg Arg
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1   5   10   15

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1   5   10   15

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<220>
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<223> Beta-(1-naphthyl)alanine

<220>
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<223> Beta-Ala

<400> 225
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1 5 10 15

Arg Arg Arg Arg Gln Arg Arg Arg
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<210> 226
<211> 24
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<220>
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<223> D-Beta-(2-naphthyl)alanine

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<222> (6)..(6)
<223> Beta-(1-naphthyl)alanine

<220>
<221> MOD_RES
<222> (13)..(13)
<223> Beta-Ala

<400> 226
Cys Glu His Xaa Arg Xaa Ala Cys Pro Pro Arg Asp Ala Tyr Gly Arg
1   5   10   15

Arg Arg Arg Arg Gln Arg Arg Arg
            20

<210> 227
<211> 25
<212> PRT
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<220>
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<222> (6)..(6)
<223> Beta-(1-naphthyl)alanine

<220>
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<222> (13)..(13)
<223> Beta-Ala

<400> 227
Cys Glu His Xaa Arg Xaa Ala Cys Pro Pro Lys Asp Ala Tyr Gly Arg
1   5   10   15

Arg Arg Arg Arg Gln Arg Arg Arg Arg
            20   25

<210> 228
<211> 25
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<220>
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<223> D-Beta-(2-naphthyl)alanine

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<222> (6)..(6)
<223> Beta-(1-naphthyl)alanine

<220>
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<222> (13)..(13)
<223> Beta-Ala

<400> 228
Cys Glu His Xaa Arg Xaa Ala Cys Pro Pro Arg Asp Ala Tyr Gly Arg
1   5   10   15

Arg Arg Arg Arg Gln Arg Arg Arg Arg
            20   25

<210> 229
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<220>
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<222> (13)..(13)
<223> Beta-Ala

<400> 229
Cys Glu His Xaa Arg Xaa Ala Cys Pro Pro Lys Asp Ala Tyr Gly Arg
1   5   10   15

Arg Arg Arg Arg Arg Gln Arg Arg Arg
            20   25

<210> 230
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<222> (13)..(13)
<223> Beta-Ala

<400> 230
Cys Glu His Xaa Arg Xaa Ala Cys Pro Pro Arg Asp Ala Tyr Gly Arg

1 5 10 15

Arg Arg Arg Arg Arg Gln Arg Arg Arg
20 25

<210> 231
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<223> Beta-(2-naphthyl)alanine

<220>
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<222> (13)..(13)
<223> Beta-Ala

<400> 231
Cys Glu His Xaa Arg Xaa Ala Cys Pro Pro Arg Asp Ala Arg Arg Arg
1 5 10 15

Arg Arg Arg Gln Arg Arg Arg
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<223> Beta-(2-naphthyl)alanine

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<222> (13)..(13)
<223> Beta-Ala

<400> 232
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1   5   10   15

Arg Arg Gln Arg Arg Arg Arg
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<223> Beta-(2-naphthyl)alanine

<220>
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<222> (13)..(13)
<223> Beta-Ala

<400> 233
Cys Glu His Xaa Arg Xaa Ala Cys Pro Pro Arg Asp Ala Arg Arg Arg
1   5   10   15

Arg Arg Gln Arg Arg Arg Arg
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<223> Beta-(2-naphthyl)alanine

<220>
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<223> Beta-Ala

<400> 234
Cys Glu His Xaa Arg Xaa Ala Cys Pro Pro Lys Asp Ala Tyr Gly Arg
1   5   10   15

Arg Arg Arg Arg Gln Arg Arg Arg
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<210> 235
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<223> Beta-(2-naphthyl)alanine

<220>
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<223> Beta-Ala

<400> 235
Cys Glu His Xaa Arg Xaa Ala Cys Pro Pro Arg Asp Ala Tyr Gly Arg
1 5 10 15

Arg Arg Arg Arg Gln Arg Arg Arg
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<223> Beta-(2-naphthyl)alanine

<220>
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<223> Beta-Ala

<400> 236
Cys Glu His Xaa Arg Xaa Ala Cys Pro Pro Lys Asp Ala Tyr Gly Arg
1   5   10   15

Arg Arg Arg Arg Arg Gln Arg Arg Arg
            20   25

<210> 237
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<220>
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<222> (13)..(13)
<223> Beta-Ala

<400> 237
Cys Glu His Xaa Arg Xaa Ala Cys Pro Pro Arg Asp Ala Tyr Gly Arg
1   5   10   15

Arg Arg Arg Arg Arg Gln Arg Arg Arg
            20   25

<210> 238
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peptide

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<220>
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<222> (13)..(13)
<223> Beta-Ala

<400> 238
Cys Glu His Xaa Arg Xaa Ala Cys Pro Pro Lys Asp Ala Tyr Gly Arg
1 5 10 15

Arg Arg Arg Arg Gln Arg Arg Arg Arg
20 25

<210> 239
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peptide

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<221> MOD_RES
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<400> 239
Cys Glu His Xaa Arg Xaa Ala Cys Pro Pro Arg Asp Ala Tyr Gly Arg
1   5   10   15

Arg Arg Arg Arg Gln Arg Arg Arg Arg
            20   25

<210> 240
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<212> PRT
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<220>
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<222> (6)..(6)
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<220>
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<222> (13)..(13)
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<400> 240
Cys Glu His Xaa Arg Xaa Ala Cys Pro Pro Lys Asp Ala Arg Arg Arg
1   5   10   15

Arg Arg Gln Arg Arg Arg Arg
            20

<210> 241
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<212> PRT

<213> Artificial Sequence

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peptide

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<223> 3-benzothienylalanine

<220>
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<222> (13)..(13)
<223> Beta-Ala

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1 5 10 15

Arg Arg Gln Arg Arg Arg Arg
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<222> (13)..(13)
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<400> 242
Cys Glu His Xaa Arg Xaa Ala Cys Pro Pro Arg Asp Ala Tyr Gly Arg
1   5   10   15

Arg Arg Arg Arg Gln Arg Arg Arg
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<210> 243
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<220>
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<222> (13)..(13)
<223> Beta-Ala

<400> 243
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1   5   10   15

Arg Arg Arg Arg Gln Arg Arg Arg Arg
            20   25

<210> 244

<211> 25
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<220>
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peptide

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<222> (6)..(6)
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<220>
<221> MOD_RES
<222> (13)..(13)
<223> Beta-Ala

<400> 244
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1 5 10 15

Arg Arg Arg Arg Gln Arg Arg Arg Arg
20 25

<210> 245
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peptide

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<222> (6)..(6)
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<222> (13)..(13)
<223> Beta-Ala

<400> 245
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1   5   10   15

Arg Arg Arg Arg Arg Gln Arg Arg Arg
            20   25

<210> 246
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<223> 3-benzothienylalanine

<220>
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<222> (13)..(13)
<223> Beta-Ala

<400> 246
Cys Glu His Xaa Arg Xaa Ala Cys Pro Pro Arg Asp Ala Tyr Gly Arg
1   5   10   15

Arg Arg Arg Arg Arg Gln Arg Arg Arg
            20   25

<210> 247
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<220>
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<222> (3)..(3)
<223> D-Ala

<220>
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<222> (5)..(5)
<223> D-Phe

<220>
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<222> (9)..(9)
<223> 8-amino-3,6-dioxaoctanoic acid

<220>
<221> MOD_RES
<222> (10)..(10)
<223> 8-amino-3,6-dioxaoctanoic acid

<400> 247
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1 5 10 15

Arg Gln Arg Arg Arg
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<210> 248
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<220>
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<223> D-Ala

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<222> (5)..(5)
<223> D-Phe

<220>
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<223> Beta-Ala

<400> 248
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1 5 10 15

Arg Arg Arg Arg
20

<210> 249
<211> 20
<212> PRT
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<220>
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<223> 8-amino-3,6-dioxaoctanoic acid

<400> 249
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1   5   10   15

Gln Arg Arg Arg
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<210> 250
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<222> (9)..(9)
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<400> 250
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1   5   10   15

Arg Arg

<210> 251
<211> 19
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<222> (3)..(3)
<223> D-Ala

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<222> (5)..(5)
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<223> Beta-Ala

<400> 251
Xaa Cys Ala His Phe Arg Trp Cys Ala Gly Arg Arg Arg Arg Arg Gln
1   5   10   15

Arg Arg Arg

<210> 252
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<400> 252
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1 5 10 15

Gln Arg Arg Arg
20

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<223> Beta-Ala

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1   5   10   15

Arg Arg Arg Arg
            20

<210> 254
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<222> (9)..(9)
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<400> 254
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1   5   10   15

Gln Arg Arg Arg
            20

<210> 255
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1 5 10 15

Gln Arg Arg Arg
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<210> 256
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1 5 10 15

Arg Arg Arg

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<400> 257
Xaa Cys Ala His Phe Arg Trp Cys Ala Gly Arg Lys Arg Arg Arg Gln
1 5 10 15

Arg Arg Arg

<210> 258
<211> 18
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<220>
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<400> 258
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1   5   10   15

Arg Arg

<210> 259
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<220>
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<400> 259
Xaa Cys Ala His Phe Arg Trp Cys Ala Arg Lys Arg Arg Arg Gln Arg
1   5   10   15

Arg Arg

<210> 260
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<220>
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<400> 260
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Arg Arg Arg

<210> 261
<211> 20
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<220>
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<400> 261
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Gln Arg Arg Arg
20

<210> 262
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<220>
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peptide

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Arg Gln Arg Arg Arg
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<220>
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Arg Arg

<210> 264
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Arg Arg Arg

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Gln Arg Arg Arg
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Arg Arg Arg

<210> 267
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Gln Arg Arg Arg
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Arg Gln Arg Arg Arg
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Gln Arg Arg Arg Arg
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Arg Arg Arg Arg
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Arg Gln Arg Arg Arg Arg

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Gln Arg Arg Arg
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Arg Arg

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1 5 10 15

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Arg Arg

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Gln Arg Arg Arg
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Arg Arg

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Arg Arg Arg Arg
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Arg Arg Arg

<210> 298
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<220>
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<220>
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<223> Beta-Ala

<400> 298
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1 5 10 15

Arg Arg

<210> 299
<211> 21
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<220>
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<222> (9)..(9)
<223> Beta-Ala

<400> 299
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1   5   10   15

Gln Arg Arg Arg Arg
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<210> 300
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Arg Arg Arg Arg
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<210> 301
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Arg Arg Arg

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<400> 302
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Arg Arg Arg Arg
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<210> 303
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<220>
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Arg Arg Arg

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<400> 304

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1   5   10   15

Arg Arg

<210> 305
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Gln Arg Arg Arg Arg
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Arg Arg Arg Arg
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Arg Arg Arg

<210> 308
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<222> (9)..(9)
<223> Beta-Ala

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1   5   10   15

Gln Arg Arg Arg
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<210> 309
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Arg Arg

<210> 310
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<222> (7)..(7)
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Gln Arg Arg Arg
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<210> 311
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<222> (7)..(7)
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<223> Beta-Ala

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1   5   10   15

Arg Arg

<210> 312
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<212> PRT
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<220>
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<223> D-Cys

<220>
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<222> (10)..(10)
<223> Beta-Ala

<400> 312
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1   5   10   15

Arg Gln Arg Arg Arg
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<210> 313
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<220>
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<223> D-Cys

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1   5   10   15

Arg Arg Arg

<210> 314
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<220>
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<223> Beta-Ala

<400> 314

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1   5   10   15

Gln Arg Arg Arg
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<220>
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1   5   10   15

Arg Arg

<210> 316
<211> 20
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<223> Beta -cyclohexylalanine

<220>
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<223> D-Phe

<220>
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<222> (7)..(7)
<223> 4-aminobutyric acid

<220>
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<223> Beta-Ala

<400> 316
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1 5 10 15

Gln Arg Arg Arg
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<210> 317
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<212> PRT
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<220>
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<223> 4-aminobutyric acid

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<400> 317
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1   5   10   15

Arg Arg

<210> 318
<211> 20
<212> PRT
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peptide

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<220>
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1   5   10   15

Gln Arg Arg Arg
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<210> 319
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1   5   10   15

Arg Arg

<210> 320
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1 5 10 15

Gln Arg Arg Arg
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<210> 321
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<222> (7)..(7)
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<400> 321
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1   5   10   15

Arg Arg

<210> 322
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<220>
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<220>
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<223> D-Phe

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<223> Beta-Ala

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1   5   10   15

Gln Arg Arg Arg
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<400> 323
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1   5   10   15

Arg Arg

<210> 324
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<400> 324
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1   5   10   15

Arg Gln Arg Arg Arg

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<210> 325
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<223> Beta-Ala

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Xaa Asp His Phe Arg Trp Xaa Lys Ala Ala Arg Arg Arg Arg Arg Gln
1 5 10 15

Arg Arg Arg

<210> 326
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<223> D-Phe

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<222> (7)..(7)
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<400> 326
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1 5 10 15

Gln Arg Arg Arg
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<210> 327
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<222> (7)..(7)
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<223> 8-amino-3,6-dioxaoctanoic acid

<400> 327
Xaa Asp His Phe Arg Trp Xaa Lys Xaa Arg Arg Arg Arg Arg Gln Arg
1   5   10   15

Arg Arg

<210> 328
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<220>
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<223> D-Phe

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<400> 328
Xaa Asp His Phe Arg Trp Xaa Lys Xaa Xaa Tyr Gly Arg Arg Arg Arg
1   5   10   15

Arg Gln Arg Arg Arg
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<210> 329
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<220>
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<400> 329
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1   5   10   15

Arg Arg Arg

<210> 330
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<223> 4-aminobutyric acid

<220>
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<222> (9)..(9)
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<400> 330
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1   5   10   15

Gln Arg Arg Arg Arg
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<220>
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<220>
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<400> 331
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1 5 10 15

Arg Arg Arg

<210> 332
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<220>
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1   5   10   15

Arg Gln Arg Arg Arg Arg
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<210> 333
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<222> (7)..(7)
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<220>
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<222> (9)..(9)
<223> Beta-Ala

<220>
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<222> (10)..(10)
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<400> 333
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1   5   10   15

Arg Arg Arg Arg
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<210> 334
<211> 21
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<220>
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<220>

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<223> 4-aminobutyric acid

<220>
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<223> 8-amino-3,6-dioxaoctanoic acid

<400> 334
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1   5   10   15

Gln Arg Arg Arg Arg
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<210> 335
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<223> D-Phe

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<223> 4-aminobutyric acid

<220>
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<400> 335
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1 5 10 15

Arg Arg Arg

<210> 336
<211> 22
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<223> 8-amino-3,6-dioxaoctanoic acid

<400> 336
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1 5 10 15

Arg Gln Arg Arg Arg Arg
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<210> 337
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<223> 8-amino-3,6-dioxaoctanoic acid

<400> 337
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1 5 10 15

Arg Arg Arg Arg
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<210> 338
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<223> Beta-Ala

<400> 338
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Gln Arg Arg Arg
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<210> 339
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<223> D-Phe

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Arg Arg

<210> 340
<211> 20
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<222> (7)..(7)
<223> 4-aminobutyric acid

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<223> Beta-Ala

<400> 340
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1 5 10 15

Gln Arg Arg Arg
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<210> 341
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<222> (7)..(7)
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<400> 341
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1 5 10 15

Arg Arg

<210> 342
<211> 20
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<222> (6)..(6)
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<222> (7)..(7)
<223> 5-aminopentanoic acid

<220>
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<223> Beta-Ala

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1   5   10   15

Gln Arg Arg Arg
            20

<210> 343
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<220>
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<223> 5-aminopentanoic acid

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1   5   10   15

Arg Arg

<210> 344
<211> 20
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<400> 344
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1   5   10   15

Gln Arg Arg Arg
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<210> 345
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<222> (7)..(7)
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<220>
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<400> 345
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1   5   10   15

Arg Arg

<210> 346
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<222> (7)..(7)
<223> Beta-Ala

<220>
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<222> (9)..(9)

<223> Beta-Ala

<400> 346
Xaa Cys His Phe Arg Trp Ala Cys Ala Tyr Gly Arg Arg Arg Arg Arg
1   5   10   15

Gln Arg Arg Arg
            20

<210> 347
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<223> D-Phe

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<222> (6)..(6)
<223> D-Trp

<220>
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<222> (7)..(7)
<223> Beta-Ala

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<222> (9)..(9)
<223> Beta-Ala

<400> 347
Xaa Cys His Phe Arg Trp Ala Cys Ala Arg Arg Arg Arg Arg Gln Arg
1   5   10   15

Arg Arg

<210> 348
<211> 20
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<223> D-Ala

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<223> D-Phe

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<223> Penicillamine

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<223> Beta-Ala

<400> 348
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1 5 10 15

Gln Arg Arg Arg
20

<210> 349

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<223> Penicillamine

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<400> 349
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1 5 10 15

Arg Arg Arg

<210> 350
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<220>
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<400> 350
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1 5 10 15

Arg Arg

<210> 351
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Arg Gln Arg Arg Arg
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1   5   10   15

Gln Arg Arg Arg
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<210> 353
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1   5   10   15

Arg Arg Arg

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<400> 354
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1   5   10   15

Gln Arg Arg Arg
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<210> 355
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<223> 8-amino-3,6-dioxaoctanoic acid

<400> 355
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Arg Arg Arg

<210> 356
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<220>
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<223> Penicillamine

<220>
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<400> 356
Xaa Cys Ala His Phe Arg Trp Xaa Xaa Arg Arg Arg Arg Arg Gln Arg
1   5   10   15

Arg Arg

<210> 357
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<220>
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<400> 357
Xaa Cys Ala His Phe Arg Trp Xaa Xaa Xaa Tyr Gly Arg Arg Arg Arg
1   5   10   15

Arg Gln Arg Arg Arg
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Gln Arg Arg Arg
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<210> 359
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<223> 8-amino-3,6-dioxaoctanoic acid

<400> 359
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1   5   10   15

Arg Arg Arg

<210> 360
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peptide

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<223> D-Cys

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<400> 360
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1 5 10 15

Gln Arg Arg Arg
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<210> 361
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<220>
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1 5 10 15

Arg Arg

<210> 362
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<210> 363
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<220>
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<400> 363
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Arg Arg Arg

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Arg Arg Arg Arg
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Arg Arg Arg

<210> 423
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<220>
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Gln Arg Arg Arg
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Arg Arg

<210> 425
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<400> 425
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Arg Gln Arg Arg Arg
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<210> 426
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<400> 426
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Arg Arg Arg

<210> 427
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Gln Arg Arg Arg Arg
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<210> 428
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Arg Arg Arg

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Arg Gln Arg Arg Arg Arg
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<210> 430
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1   5   10   15

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<210> 431
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Gln Arg Arg Arg Arg
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Arg Arg Arg

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Gln Arg Arg Arg
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Arg Arg

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Arg Gln Arg Arg Arg
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Arg Arg Arg

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Gln Arg Arg Arg
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Arg Arg

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Arg Gln Arg Arg Arg
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Arg Arg Arg

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1 5 10 15

Gln Arg Arg Arg Arg
20

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Arg Arg Arg

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1   5   10   15

Arg Gln Arg Arg Arg Arg
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1   5   10   15

Arg Arg Arg Arg
            20

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<400> 447
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1   5   10   15

Gln Arg Arg Arg Arg
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1   5   10   15

Arg Arg Arg

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1 5 10 15

Arg Gln Arg Arg Arg Arg
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<220>
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1   5   10   15

Arg Arg Arg Arg
            20

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<223> D-Phe

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<400> 451
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1   5   10   15

Gln Arg Arg Arg
            20

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Arg Arg

<210> 453
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1   5   10   15

Arg Gln Arg Arg Arg
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1   5   10   15

Arg Arg Arg

<210> 455
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<220>
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<222> (4)..(4)
<223> D-Phe

<220>
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<222> (7)..(7)
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<220>
<221> MOD_RES
<222> (9)..(9)
<223> Beta-Ala

<400> 455
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1 5 10 15

Gln Arg Arg Arg Arg
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<210> 456
<211> 19
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<220>
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<220>
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<223> Beta-Ala

<400> 456
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1   5   10   15

Arg Arg Arg

<210> 457
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<220>
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<223> Beta-Ala

<220>
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<223> Beta-Ala

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Arg Gln Arg Arg Arg Arg
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1   5   10   15

Arg Arg Arg Arg
            20

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<400> 459
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1   5   10   15

Gln Arg Arg Arg

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<210> 460
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<400> 460
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Arg Arg

<210> 461
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<220>
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<223> 8-amino-3,6-dioxaoctanoic acid

<400> 461
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Arg Gln Arg Arg Arg
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<210> 462
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<400> 462
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Arg Arg Arg

<210> 463
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1   5   10   15

Gln Arg Arg Arg Arg
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<223> 4-aminobutyric acid

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<223> 8-amino-3,6-dioxaoctanoic acid

<400> 464

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Arg Arg Arg

<210> 465
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1   5   10   15

Arg Gln Arg Arg Arg Arg
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Arg Arg Arg Arg
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<210> 467
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<210> 468
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<220>
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<210> 469
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<220>
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<220>
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1   5   10

<210> 470
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<220>
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1   5   10

<210> 471
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<220>
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1   5   10

<210> 472
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<222> (7)..(7)
<223> Beta-Ala

<400> 472
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1   5   10

<210> 473
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<220>
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<220>
<221> MOD_RES
<222> (6)..(6)
<223> Beta-(2-naphthyl)alanine

<220>
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<222> (7)..(7)
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<400> 473
Cys Glu His Xaa Arg Xaa Xaa Cys Pro Pro Lys Asp
1   5   10

<210> 474
<211> 7
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<220>
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<220>
<221> MOD_RES
<222> (4)..(4)
<223> D-Phe

<400> 474
Cys Ala His Phe Arg Trp Cys
1   5

<210> 475
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<222> (4)..(4)
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<210> 477
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<210> 478
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<223> D-Phe

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1 5

<210> 479
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<220>
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<223> D-Phe

<220>
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<210> 480
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<220>
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<223> D-Phe

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1   5

<210> 481
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<223> D-Phe

<220>
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<400> 481
Asp Ala His Phe Arg Trp Xaa
1   5

<210> 482
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<223> D-Beta-(2-naphthyl)alanine

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1   5

<210> 483
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<220>
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<400> 483
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1   5

<210> 484
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<220>
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<220>
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<223> D-Phe

<400> 484
Asp Xaa Phe Arg Trp Lys
1   5

<210> 485
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<220>
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<220>
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<210> 486
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<220>
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<223> D-Phe

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<220>
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1 5

<210> 488
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<220>
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1 5

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<220>
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1 5

<210> 490
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<220>
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<223> 2-aminoindan-2-carboxylic acid

<220>
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<222> (3)..(3)
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<400> 490
Asp Xaa Phe Arg Trp Lys
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<210> 491
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<220>
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<220>
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<400> 491
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1 5

<210> 492
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<220>
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<400> 492
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1 5

<210> 493
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<220>
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<220>
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<210> 494
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<220>
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<210> 495
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<220>
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<220>
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<223> D-Phe

<220>
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<223> 2,4-diaminobutyric acid

<400> 495
Glu Ala His Phe Arg Trp Xaa
1   5

<210> 496
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<220>
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<220>
<221> MOD_RES
<222> (4)..(4)
<223> D-Phe

<220>
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<223> 2,3-diaminopropionic acid

<400> 496
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1   5

<210> 497
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<220>
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<220>
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<220>
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<222> (4)..(4)
<223> D-Phe

<400> 497
Glu Ala His Phe Arg Trp Lys
1   5

<210> 498
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<220>
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<223> D-Phe

<220>
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<223> 2,3-diaminopropionic acid

<400> 498
Glu His Phe Arg Trp Xaa
1   5

<210> 499
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<400> 499
Glu His Phe Arg Trp Lys
1   5

<210> 500
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<220>
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1   5

<210> 501
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<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<220>
<221> MOD_RES
<222> (1)..(1)
<223> Beta-homo-Met

<220>
<221> MOD_RES
<222> (4)..(4)
<223> D-Phe

<220>
<221> MOD_RES
<222> (7)..(7)
<223> 4-aminobutyric acid

<400> 599
Met Asp His Phe Arg Trp Xaa Lys
1 5

<210> 600
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<220>
<221> MOD_RES
<222> (1)..(1)
<223> 4-aminobutyric acid

<220>
<221> MOD_RES
<222> (4)..(4)
<223> D-Phe

<220>
<221> MOD_RES
<222> (7)..(7)
<223> 4-aminobutyric acid

<400> 600
Xaa Asp His Phe Arg Trp Xaa Lys
1   5

<210> 601
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
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      peptide

<220>
<221> MOD_RES
<222> (1)..(1)
<223> Beta -cyclohexylalanine

<220>
<221> MOD_RES
<222> (4)..(4)
<223> D-Phe

<220>
<221> MOD_RES
<222> (6)..(6)
<223> D-Trp

<400> 601
Xaa Asp His Phe Arg Trp Ala Lys
1   5

<210> 602
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
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      peptide

<220>
<221> MOD_RES
<222> (1)..(1)
<223> homo-cyclohexylalanine

<220>
<221> MOD_RES
<222> (4)..(4)
<223> D-Phe

<220>
<221> MOD_RES
<222> (6)..(6)
<223> D-Trp

<400> 602
Xaa Asp His Phe Arg Trp Ala Lys
1   5

<210> 603
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      peptide

<220>
<221> MOD_RES
<222> (4)..(4)
<223> D-Phe

<220>
<221> MOD_RES
<222> (6)..(6)
<223> D-Trp

<400> 603
Leu Asp His Phe Arg Trp Ala Lys
1   5

<210> 604
<211> 8
<212> PRT
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<220>
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peptide

<220>
<221> MOD_RES
<222> (1)..(1)
<223> homo-Leu

<220>
<221> MOD_RES
<222> (4)..(4)
<223> D-Phe

<220>
<221> MOD_RES
<222> (6)..(6)
<223> D-Trp

<400> 604
Leu Asp His Phe Arg Trp Ala Lys
1 5

<210> 605
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<220>
<221> MOD_RES
<222> (1)..(1)
<223> D-Lys

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Homo-Cys

<220>
<221> MOD_RES
<222> (4)..(4)
<223> D-Phe

<220>
<221> MOD_RES
<222> (7)..(7)
<223> Penicillamine

<400> 605
Lys Cys Thr Phe Arg Trp Xaa
1   5

<210> 606
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      peptide

<220>
<221> MOD_RES
<222> (4)..(4)
<223> D-Phe

<220>
<221> MOD_RES
<222> (6)..(6)
<223> D-Trp

<400> 606
Phe Asp His Phe Arg Trp Ala Lys
1   5

<210> 607
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      peptide

<220>
<221> MOD_RES
<222> (1)..(1)
<223> Norleucine

<220>
<221> MOD_RES
<222> (4)..(4)
<223> D-Phe

<220>
<221> MOD_RES
<222> (6)..(6)
<223> D-Trp

<220>
<221> MOD_RES
<222> (7)..(7)
<223> D-Ala

<400> 607
Leu Asp His Phe Arg Trp Ala Lys
1   5

<210> 608
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      peptide

<220>
<221> MOD_RES
<222> (1)..(1)
<223> Norleucine

<220>
<221> MOD_RES
<222> (4)..(4)
<223> D-Phe

<220>
<221> MOD_RES
<222> (6)..(6)
<223> D-Trp

<220>
<221> MOD_RES
<222> (7)..(7)
<223> Beta-Ala

<400> 608
Leu Asp His Phe Arg Trp Ala Lys
1   5

<210> 609
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      peptide

<220>
<221> MOD_RES
<222> (1)..(1)
<223> Norleucine

<220>
<221> MOD_RES
<222> (4)..(4)
<223> D-Phe

<220>
<221> MOD_RES
<222> (6)..(6)
<223> D-Trp

<220>
<221> MOD_RES
<222> (7)..(7)
<223> 4-aminobutyric acid

<400> 609
Leu Asp His Phe Arg Trp Xaa Lys
1   5

<210> 610
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      peptide

<220>
<221> MOD_RES
<222> (1)..(1)
<223> D-Lys

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Homo-Cys

<220>
<221> MOD_RES
<222> (4)..(4)
<223> D-Phe

<220>
<221> MOD_RES
<222> (7)..(7)
<223> Penicillamine

<400> 610
Lys Cys Thr Phe Arg Trp Xaa
1   5

<210> 611
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      peptide

<220>
<221> MOD_RES
<222> (1)..(1)
<223> Norleucine

<220>
<221> MOD_RES
<222> (4)..(4)
<223> D-Phe

<220>
<221> MOD_RES
<222> (6)..(6)
<223> D-Trp

<220>
<221> MOD_RES
<222> (7)..(7)
<223> 7-aminoheptanoic acid

<400> 611
Leu Asp His Phe Arg Trp Xaa Lys
1   5

<210> 612
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      peptide

<220>
<221> MOD_RES
<222> (1)..(1)
<223> Norleucine

<220>
<221> MOD_RES
<222> (4)..(4)
<223> D-Phe

<220>
<221> MOD_RES
<222> (6)..(6)
<223> D-Trp

<220>
<221> MOD_RES
<222> (7)..(7)
<223> 5-aminopentanoic acid

<400> 612
Leu Asp His Phe Arg Trp Xaa Lys
1   5

<210> 613
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<220>
<221> MOD_RES
<222> (1)..(1)
<223> Norleucine

<220>
<221> MOD_RES
<222> (4)..(4)
<223> D-Phe

<220>
<221> MOD_RES
<222> (6)..(6)
<223> D-Trp

<220>
<221> MOD_RES
<222> (7)..(7)
<223> 5-aminopentanoic acid

<400> 613
Leu Cys His Phe Arg Trp Xaa Cys
1 5

<210> 614
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<220>
<221> MOD_RES
<222> (1)..(1)
<223> D-Lys

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Homo-Cys

<220>
<221> MOD_RES
<222> (4)..(4)
<223> D-Phe

<220>
<221> MOD_RES
<222> (7)..(7)
<223> Penicillamine

<400> 614
Lys Cys Thr Phe Arg Trp Xaa
1   5

<210> 615
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      peptide

<220>
<221> MOD_RES
<222> (1)..(1)
<223> Norleucine

<220>
<221> MOD_RES
<222> (3)..(3)
<223> D-Ala

<220>
<221> MOD_RES
<222> (5)..(5)
<223> D-Phe

<220>
<221> MOD_RES
<222> (7)..(7)
<223> Beta-(2-naphthyl)alanine

<400> 615
Leu Cys Ala His Phe Arg Xaa Cys
1   5

<210> 616
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<220>
<221> MOD_RES
<222> (1)..(1)
<223> Norleucine

<220>
<221> MOD_RES
<222> (3)..(3)
<223> D-Ala

<220>
<221> MOD_RES
<222> (5)..(5)
<223> D-Phe

<400> 616
Leu Cys Ala His Phe Arg Trp Cys
1 5

<210> 617
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 617
Arg Lys Lys Arg Arg Gln Arg Arg Arg
1 5

<210> 618
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 618
Tyr Ala Arg Lys Ala Arg Arg Gln Ala Arg Arg
1 5 10

<210> 619
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 619
Tyr Ala Arg Ala Ala Arg Arg Ala Ala Arg Arg
1 5 10

<210> 620
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 620
Tyr Ala Arg Arg Arg Arg Arg Arg Arg Arg Arg
1 5 10

<210> 621
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 621
Tyr Ala Ala Ala Arg Arg Arg Arg Arg Arg Arg
1 5 10

<210> 622
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 622
Tyr Ala Arg Ala Pro Arg Arg Ala Arg Arg Arg
1 5 10

<210> 623
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 623
Tyr Ala Arg Ala Pro Arg Arg Pro Arg Arg
1 5 10

<210> 624
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 624
Arg Lys Gln Lys Arg Arg Arg Arg Arg
1 5

<210> 625
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

peptide

<400> 625
Arg Lys Lys Arg Gln Arg Arg Arg Arg
1 5

<210> 626
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 626
Arg Lys Lys Arg Arg Arg Gln Arg Arg
1 5

<210> 627
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 627
Arg Lys Lys Arg Arg Arg Arg Gln Arg
1 5

<210> 628
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 628
Arg Lys Lys Arg Arg Arg Arg Arg Gln
1 5

<210> 629

<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 629
Arg Lys Lys Gln Arg Arg Arg Arg Arg
1 5

<210> 630
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 630
Arg Gln Lys Lys Arg Arg Arg Arg Arg
1 5

<210> 631
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 631
Arg Gln Arg Arg Arg Arg Arg Arg Arg
1 5

<210> 632
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 632
Arg Gln Arg Arg Arg Arg Arg Arg Arg Arg
1   5   10

<210> 633
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      peptide

<400> 633
Arg Arg Gln Arg Arg Arg Arg Arg Arg
1   5

<210> 634
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      peptide

<400> 634
Arg Arg Gln Arg Arg Arg Arg Arg Arg Arg
1   5   10

<210> 635
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      peptide

<400> 635
Arg Arg Arg Gln Arg Arg Arg Arg Arg
1   5

<210> 636
<211> 10
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 636
Arg Arg Arg Gln Arg Arg Arg Arg Arg Arg
1 5 10

<210> 637
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 637
Arg Arg Arg Arg Gln Arg Arg Arg Arg
1 5

<210> 638
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 638
Arg Arg Arg Arg Gln Arg Arg Arg Arg Arg
1 5 10

<210> 639
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 639
Arg Arg Arg Arg Arg

1 5

<210> 640
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 640
Arg Arg Arg Arg Arg Gln Arg Arg Arg
1 5

<210> 641
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 641
Arg Arg Arg Arg Arg Gln Arg Arg Arg Arg
1 5 10

<210> 642
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 642
Arg Arg Arg Arg Arg Arg
1 5

<210> 643
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 643
Arg Arg Arg Arg Arg Arg Gln Arg Arg Arg
1 5 10

<210> 644
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 644
Arg Arg Arg Arg Arg Arg Arg
1 5

<210> 645
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 645
Arg Arg Arg Arg Arg Arg Arg Gln Arg Arg
1 5 10

<210> 646
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 646
Arg Arg Arg Arg Arg Arg Arg Arg
1 5

<210> 647
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<220>
<221> SITE
<222> (1)..(7)
<223> This region may encompass 1-7 residues

<400> 647
Arg Arg Arg Arg Arg Arg Arg Gln Arg
1 5

<210> 648
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 648
Arg Arg Arg Arg Arg Arg Arg Arg Arg
1 5

<210> 649
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 649
Arg Arg Arg Arg Arg Arg Arg Arg Arg Gln
1 5 10

<210> 650

<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 650
Gln Arg Lys Lys Arg Arg Arg Arg Arg
1 5

<210> 651
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 651
Gln Arg Arg Arg Arg Arg Arg Arg Arg
1 5

<210> 652
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 652
Gln Arg Arg Arg Arg Arg Arg Arg Arg Arg
1 5 10

<210> 653
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 653
Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg
1   5   10

<210> 654
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      peptide

<220>
<221> MOD_RES
<222> (12)..(12)
<223> 8-amino-3,6-dioxaoctanoic acid

<400> 654
Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg Xaa
1   5   10

<210> 655
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      peptide

<220>
<221> MOD_RES
<222> (1)..(2)
<223> Beta-Ala

<400> 655
Ala Ala Tyr Gly
1

<210> 656
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<220>
<221> MOD_RES
<222> (1)..(1)
<223> 8-amino-3,6-dioxaoctanoic acid

<220>
<221> MOD_RES
<222> (2)..(2)
<223> 8-amino-3,6-dioxaoctanoic acid

<400> 656
Xaa Xaa Tyr Gly
1

<210> 657
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 657
Arg Lys Arg Arg Arg Gln Arg Arg Arg
1 5

<210> 658
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<220>
<221> SITE
<222> (2)..(9)
<223> This region may encompass 1-7 residues

<400> 658

Arg Gln Arg Arg Arg Arg Arg Arg Arg
1 5

<210> 659
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 659
Arg Arg Lys Arg Arg Gln Arg Arg Arg
1 5

<210> 660
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<221> SITE
<222> (1)..(7)
<223> This region may encompass 1-7 residues

<400> 660
Arg Arg Arg Arg Arg Arg Arg Gln Arg Arg Arg
1 5 10

<210> 661
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<221> MOD_RES

<222> (4)..(4)
<223> D-isomer of X-Phe or beta-(2-naphthyl)alanine where X is a
halogen

<220>
<221> MOD_RES
<222> (6)..(6)
<223> 3-benzothienylalanine, beta-(1-naphthyl)alanine, beta-
(2-naphthyl)alanine, or Trp

<220>
<221> MOD_RES
<222> (7)..(7)
<223> alpha-aminoisobutyric acid, Ala, Beta-Ala or Gly

<400> 661
Cys Glu His Xaa Arg Xaa Xaa Cys Pro Pro Lys Asp
1 5 10

<210> 662
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<220>
<221> MOD_RES
<222> (3)..(3)
<223> D-Ala

<220>
<221> MOD_RES
<222> (5)..(5)
<223> D-Phe(Para-fluoro)

<400> 662
Arg Cys Ala His Phe Arg Trp Cys
1 5

<210> 663
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<220>
<221> MOD_RES
<222> (3)..(3)
<223> D-Ala

<220>
<221> MOD_RES
<222> (5)..(5)
<223> D-Phe

<400> 663
Arg Cys Ala Pro Phe Arg Trp Cys
1 5

<210> 664
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
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peptide

<220>
<221> MOD_RES
<222> (3)..(3)
<223> D-Ala

<220>
<221> MOD_RES
<222> (5)..(5)
<223> D-Phe(Para-fluoro)

<400> 664
Arg Cys Ala Pro Phe Arg Trp Cys
1 5

<210> 665
<211> 8
<212> PRT
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<220>
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peptide

<220>
<221> MOD_RES
<222> (3)..(3)
<223> D-Ala

<220>
<221> MOD_RES
<222> (5)..(5)
<223> D-Phe(Para-fluoro)

<400> 665
Arg Cys Ala Ser Phe Arg Trp Cys
1 5

<210> 666
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
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peptide

<220>
<221> MOD_RES
<222> (3)..(3)
<223> D-Ala

<220>
<221> MOD_RES
<222> (5)..(5)
<223> D-Phe(Para-cyano)

<400> 666
Arg Cys Ala Thr Phe Arg Trp Cys
1 5

<210> 667
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<220>
<221> MOD_RES
<222> (3)..(3)
<223> D-Ala

<220>
<221> MOD_RES
<222> (5)..(5)
<223> D-Phe

<400> 667
Arg Cys Ala Asn Phe Arg Trp Cys
1 5

<210> 668
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<220>
<221> MOD_RES
<222> (3)..(3)
<223> D-Ala

<220>
<221> MOD_RES
<222> (5)..(5)
<223> D-Phe

<400> 668
Arg Cys Ala Gln Phe Arg Trp Cys
1 5

<210> 669
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<220>
<221> MOD_RES
<222> (3)..(3)
<223> D-Ala

<220>
<221> MOD_RES
<222> (5)..(5)
<223> D-Phe

<400> 669
Arg Cys Ala Trp Phe Arg Trp Cys
1 5

<210> 670
<211> 8
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<223> D-Phe

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