

## SEQUENCE LISTING

<110> Imperial Innovations Limited

<120> Method of Diagnosis and Prognosis

<130> 15631WO

<150> GB 1107118.0

<151> 2011-04-27

<160> 227

<170> PatentIn version 3.5

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Tyr Glu Arg Phe

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<223> Fluorenylmethyloxycarbonyl-Tyr

<220>

<221> MOD\_RES

<222> (2)..(2)

<223> 4-methyl ester aspartic acid (Asp(OMe))

<220>

<221> MOD\_RES

<222> (4)..(4)

<223> AMIDATION

<400> 68

Tyr Asp His Phe

1

<210> 69

<211> 4

<212> PRT

<213> artificial sequence

<220>

<223> therapeutic agent

<220>

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<220>

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<223> 4-methyl ester aspartic acid (Asp(OMe))

<220>

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<222> (4)..(4)

<223> AMIDATION

<400> 69

Tyr Asp His Phe

1

<210> 70

<211> 4

<212> PRT

<213> artificial sequence

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<223> Myristyl-Tyr

<220>

<221> MOD\_RES

<222> (4)..(4)

<223> AMIDATION

<400> 70

Tyr Glu Arg Phe

1

<210> 71

<211> 4

<212> PRT

<213> artificial sequence

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<223> Myristyl-Tyr

<220>

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<222> (4)..(4)

<223> AMIDATION

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Tyr Asp His Phe

1

<210> 72

<211> 4

<212> PRT

<213> artificial sequence

<220>

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<222> (1)..(4)

<223> D or L amino acid configuration not specified. Both configurations encompassed.

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<223> Myristyl-Tyr

<220>

<221> MOD\_RES

<222> (2)..(2)

<223> 4-methyl ester aspartic acid

<220>

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<222> (4)..(4)

<223> AMIDATION

<400> 72

Tyr Asp His Phe

1

<210> 73

<211> 9

<212> PRT

<213> artificial sequence

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<222> (1)..(1)

<223> ACETYLTATION

<220>

<221> MOD\_RES

<222> (9)..(9)

<223> AMIDATION

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Tyr Glu Arg Phe Gly Tyr Asp Arg Phe

1

5

<210> 74

<211> 9

<212> PRT

<213> artificial sequence

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<223> therapeutic agent

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<222> (1)..(1)

<223> ACETYLTATION

<220>

<221> MOD\_RES

<222> (9)..(9)

<223> AMIDATION

<400> 74

Tyr Asp His Phe Gly Tyr Asp His Phe

1

5

<210> 75

<211> 7

<212> PRT

<213> artificial sequence

<220>

<223> therapeutic agent

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<222> (1)..(1)

<223> ACETYLTATION

<220>

<221> MOD\_RES

<222> (7)..(7)

<223> AMIDATION

<400> 75

Tyr Arg Phe Gly Tyr Arg Phe

1

5

<210> 76

<211> 9

<212> PRT

<213> artificial sequence

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<223> therapeutic agent

<220>



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configurations encompassed.

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<220>

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<400> 76

Tyr Asp His Phe Gly Tyr Asp His Phe

1 5

<210> 77

<211> 9

<212> PRT

<213> artificial sequence

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<223> therapeutic agent

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<220>

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<222> (9)..(9)

<223> AMIDATION

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Tyr Glu Arg Phe Gly Tyr Glu Arg Phe

1

5

<210> 78

<211> 9

<212> PRT

<213> artificial sequence

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<223> benzyloxycarbonyl-Tyr

<220>

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<222> (9)..(9)

<223> AMIDATION

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Tyr Asp His Phe Gly Tyr Asp His Phe

1

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<210> 79

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<223> therapeutic agent

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<220>

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<223> AMIDATION

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Tyr Asp Phe Gly Tyr Asp Phe

1 5

<210> 80

<211> 9

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<220>

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<222> (7)..(7)

<223> 4-methyl ester aspartic acid

<220>

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<222> (9)..(9)

<223> AMIDATION

<400> 80

Tyr Asp His Phe Gly Tyr Asp His Phe

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<220>  
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<223> AMIDATION

<400> 81

Tyr Asp His Gln  
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<210> 82  
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<213> artificial sequence

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<223> therapeutic agent

<220>

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<222> (4)..(4)

<223> AMIDATION

<400> 82

Tyr Asp His Ala

1

<210> 83

<211> 4

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<222> (4)..(4)

<223> AMIDATION

<400> 83

Tyr Glu Lys Trp

1

<210> 84

<211> 4

<212> PRT

<213> artificial sequence

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<220>

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<220>

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<223> ACETYLTATION

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<223> AMIDATION

<400> 84

Tyr Asp Lys Trp

1

<210> 85

<211> 4

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<220>

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<220>

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<223> AMIDATION

<400> 85

Trp Asp His Phe

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<210> 86

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<222> (1) .. (1)

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Trp Glu Arg Phe

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<220>

<223> therapeutic agent

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<400> 87

Trp Asp Arg Phe

1

<210> 88

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<400> 88

Tyr Asp His Trp

1

<210> 89

<211> 4

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Tyr Asp His Trp

1

<210> 90

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<223> AMIDATION

<400> 90

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Trp Asp His Trp

1

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<400> 92

Trp Glu His Trp

1

<210> 93

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Tyr Asp Arg Trp

1

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<400> 94

Tyr Asp Lys Trp

1

<210> 95

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Tyr Glu Lys Trp

1

<210> 96

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<400> 96

Tyr Glu Arg Trp

1

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Trp Glu Lys Trp

1

<210> 98

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Trp Glu Arg Trp

1

<210> 99

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Trp Asp Lys Trp

1

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Trp Asp Arg Trp  
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Tyr Asp His Gln

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<210> 102

<211> 4

<212> PRT

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<223> therapeutic agent

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Ala Glu Arg Phe

1

<210> 103

<211> 4

<212> PRT

<213> artificial sequence

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<223> therapeutic agent

<220>

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<222> (1) .. (1)

<223> ACETYLTATION

<220>

<221> MOD\_RES

<222> (4) .. (4)

<223> AMIDATION

<400> 103

Tyr Ala Arg Phe

1

<210> 104  
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<220>  
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<220>  
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Tyr Glu Ala Phe  
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<210> 105  
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<213> artificial sequence

<220>  
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<220>

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<220>

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<400> 105

Tyr Glu Arg Ala

1

<210> 106

<211> 4

<212> PRT

<213> artificial sequence

<220>

<223> therapeutic agent

<220>

<221> MOD\_RES

<222> (1) .. (1)

<223> ACETYLATION

<220>

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<223> AMIDATION

<400> 106

Pro Glu Arg Phe

1

<210> 107  
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<400> 107

Tyr Glu Pro Phe

1

<210> 108  
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Tyr Pro Arg Phe

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Tyr Glu Arg Pro

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<223> benzoic acid-Tyr

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<222> (4) .. (4)

<223> AMIDATION

<400> 110

Tyr Asp His Gln

1

<210> 111

<211> 4

<212> PRT

<213> benzyloxycarbonyl-Tyr 4-methyl ester aspartic acid (Asp(OMe))

<220>

<221> MOD\_RES

<222> (1) .. (1)

<223> benzyloxycarbonyl-Tyr

<220>

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<222> (2) .. (2)

<223> 4-methyl ester aspartic acid (Asp(OMe))

<220>

<221> MOD\_RES

<222> (4) .. (4)

<223> AMIDATION

<400> 111

Tyr Asp His Gln

1

<210> 112

<211> 4

<212> PRT

<213> artificial sequence

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<223> therapeutic agent

<220>

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<222> (1)..(1)

<223> 2-Chlorobenzylloxycarbonyl-Tyr

<220>

<221> MOD\_RES

<222> (4)..(4)

<223> AMIDATION

<400> 112

Tyr Glu Arg Phe

1

<210> 113

<211> 4

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<222> (1) .. (1)

<223> 2-Chlorobenzyloxycarbonyl-Tyr

<220>

<221> MOD\_RES

<222> (4) .. (4)

<223> AMIDATION

<400> 113

Tyr Asp His Phe

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<222> (1) .. (1)

<223> 2-Chlorobenzyloxycarbonyl-Tyr

<220>

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<222> (4) .. (4)

<223> AMIDATION

<400> 114

Tyr Asp His Gln

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<221> MOD\_RES

<222> (4) .. (4)

<223> AMIDATION

<220>

<221> MOD\_RES

<222> (4) .. (4)

<223> (3-Methoxy,4-hydroxy-benzoyl)-Tyr



<400> 115

Tyr Asp His Gln

1

<210> 116

<211> 4

<212> PRT

<213> artificial sequence

<220>

<223> therapeutic agent

<220>

<221> MOD\_RES

<222> (1) .. (1)

<223> (3-Methoxy,4-hydroxy-benzoyl)-Tyr

<220>

<221> MOD\_RES

<222> (4) .. (4)

<223> AMIDATION

<400> 116

Tyr Asp Phe Gln

1

<210> 117

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<223> therapeutic agent

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<221> MOD\_RES

<222> (1) .. (1)

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<223> AMIDATION

<400> 117

Tyr Tyr Arg Phe

1

<210> 118

<211> 5

<212> PRT

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<223> therapeutic agent

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<400> 118

Tyr Tyr Glu Arg Phe  
1 5

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Tyr Asn Arg Phe

1

<210> 120

<211> 4

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<223> therapeutic agent

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<223> benzyloxycarbonyl-Tyr

<400> 120

Tyr Asn Arg Phe

1

<210> 121

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<400> 121

Tyr Met Arg Phe

1

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<220>

<221> MOD\_RES

<222> (4) .. (4)

<223> AMIDATION

<400> 122

Tyr Met Arg Phe

1

<210> 123

<211> 4

<212> PRT

<213> artificial sequence

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<223> therapeutic agent

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<220>

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<222> (4) .. (4)

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Tyr Asn Arg Phe

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<223> AMIDATION

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Tyr Asn Arg Phe

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<223> AMIDATION

<400> 125

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<210> 126  
<211> 4  
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<213> artificial sequence

<220>  
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<222> (4) .. (4)

<223> AMIDATION

<400> 126

Tyr Leu Arg Phe

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<210> 127

<211> 4

<212> PRT

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<223> therapeutic agent

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<222> (4) .. (4)

<223> AMIDATION

<400> 127

Tyr Asp His Gln

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<210> 128

<211> 5

<212> PRT

<213> artificial sequence

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<223> therapeutic agent

<220>

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<220>

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<223> AMIDATION

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Tyr Tyr Asp His Gln

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<210> 154

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<223> AMIDATION

<220>

<221> MOD\_RES

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<223> benzoic acid-Tyr

<400> 154

Tyr Glu Arg Phe

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<210> 155

<211> 4

<212> PRT

<213> artificial sequence

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<223> therapeutic agent

<220>

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<222> (1) .. (1)

<223> benzoic acid-Tyr

<220>

<221> MOD\_RES

<222> (4) .. (4)

<223> AMIDATION

<400> 155

Tyr Asp His Phe

1

<210> 156

<211> 4

<212> PRT

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<223> therapeutic agent

<220>

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<221> MISC\_FEATURE

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<223> residues 2, 3 and 4 may be substituted by any amino acid

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<221> MOD\_RES

<222> (4) .. (4)



<223> AMIDATION

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Gln Ala Ala Ala

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<210> 157

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<221> MISC\_FEATURE

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<222> (4) .. (4)

<223> AMIDATION

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Ser Ala Ala Ala

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<210> 158

<211> 4

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<223> Fmoc(betaAla)2-Arg

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<222> (4)..(4)

<223> AMIDATION

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Arg Ala Ala Ala

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<223> residues 2, 3 and 4 may be substituted by any naturally occurring amino acid

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<223> AMIDATION

<400> 159

Ala Ala Ala Ala

<210> 160  
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<220>  
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Tyr Ala Ala Ala  
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<210> 161  
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<223> therapeutic agent

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Pro Ala Ala Ala

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<223> AMIDATION

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Cys Ala Ala Ala

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Phe Ala Ala Ala

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<210> 165

<211> 4

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<223> therapeutic agent

<220>

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<222> (1) .. (1)

<223> Fmoc(betaAla)2-Tyr

<220>

<221> MOD\_RES

<222> (4) .. (4)

<223> AMIDATION

<400> 165

Tyr Asp His Gln

1

<210> 166

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<221> MISC\_FEATURE

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<222> (4) .. (4)

<223> AMIDATION

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Leu Ala Ala Ala

1

<210> 167

<211> 4

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<221> MISC\_FEATURE

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<223> AMIDATION

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His Ala Ala Ala

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<210> 168

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<223> AMIDATION

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<223> residues 3 and 4 may be substituted by any amino acid

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Tyr Ser Ala Ala

1

<210> 170

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<223> residues 3 and 4 may be substituted by any amino acid

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Tyr Arg Ala Ala

1

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Tyr Met Ala Ala

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<222> (4) .. (4)

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Tyr Leu Ala Ala

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Tyr His Ala Ala

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Tyr Asp Tyr Ala

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Tyr Asp Pro Ala

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Tyr Asp Met Ala

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Tyr Asp Asp Ala



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Tyr Asp His Gln

1

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Tyr Asp His Ser

1

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Tyr Asp His Arg

1

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Tyr Asp His Ala

1

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Tyr Glu Lys Trp

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Asp Asp Asp Asp Tyr

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5

<210> 227

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His Pro Phe His Leu

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