SEQUENCE LISTING

<110> Xigen S.A.

<120> Novel JNK inhibitor molecules

<130> CX01P031WO1

<160> 199

<170> PatentIn version 3.5

<210> 1
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<212> PRT
<213> Artificial

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<223> Consensus new JNK inhibitors

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<223> X2 may be R, P, G or D-enantiomeric r

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<223> X3 may be K, R or D-enantionmeric k or r

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<223> X4 may be P or K

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<223> X5 may be T, or D-enantiomeric a, s, q, k or absent

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<223> X6 may be T, D or A

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<223> X7 may be N, K or D-enantiomeric n or r

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<223> X8 may be F or D-enantiomeric f or w

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Xaa Xaa Xaa Arg Xaa Xaa Xaa Leu Xaa Leu Xaa
1 5 10

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<400> 2

Arg Pro Lys Arg Pro Thr Thr Leu Asn Leu Phe
1 5 10

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1 5 10

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Arg Pro Lys Arg Pro Thr Thr Leu Arg Leu Phe
1 5 10

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Arg Pro Lys Arg Pro Ala Thr Leu Asn Leu Phe
1 5 10

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Arg Pro Lys Arg Pro Thr Thr Leu Asn Leu Phe
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1 5 10

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Gln Arg Arg Arg Pro Thr Thr Leu Asn Leu Phe
1 5 10

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Arg Pro Lys Arg Pro Thr Thr Leu Asn Leu Trp
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Arg Pro Lys Arg Pro Thr Asp Leu Asn Leu Phe
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Arg Arg Arg Arg Pro Thr Thr Leu Arg Leu Trp
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Gln Arg Arg Arg Pro Thr Thr Leu Arg Leu Trp
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Arg Arg Arg Arg Pro Thr Asp Leu Arg Leu Trp
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Arg Arg Arg Arg Pro Ala Thr Leu Asn Leu Phe
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<222> (6)..(6)
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<222> (11)..(11)
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<222> (6)..(6)
<223> Ala is D-enantiomeric Ala

<220>
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<400> 21

Arg Arg Lys Arg Pro Ala Thr Leu Asn Leu Phe
1 5 10

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Arg Pro Lys Arg Pro Ser Thr Leu Asn Leu Phe
1 5 10

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Arg Pro Lys Arg Pro Gln Thr Leu Asn Leu Phe
1 5 10

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Arg Pro Lys Arg Pro Lys Thr Leu Asn Leu Phe
1 5 10

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Arg Gly Lys Arg Lys Ala Leu Lys Leu Phe
1 5 10

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Arg Gly Lys Arg Lys Ala Leu Arg Leu Phe
1 5 10

<210> 27
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<212> PRT
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<220>
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<400> 27

Arg Arg Arg Arg Lys Ala Leu Arg Leu Phe
1 5 10

<210> 28
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<212> PRT
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DlLLLxDmLLLyDn

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<223> /replace="any amino acid"

<220>
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<223> /replace="D-amino acid""

<220>
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<222> (1)..(1)
<223> number of repeats is 1 or 2

<220>
<221> REPEAT
<222> (4)..(4)
<223> number of repeats is 0, 1 or 2

<220>
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<223> /replace="D-amino acid""

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<222> (5)..(5)
<223> number of repeats is 1 or 2

<220>
<221> REPEAT
<222> (8)..(8)
<223> number of repeats is 0, 1 or 2

<220>
<221> VARIANT
<222> (9)..(9)
<223> /replace="D-amino acid""

<220>
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<222> (9)..(9)
<223> number of repeats is 1 or 2

<400> 28

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5

<210> 29
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
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DLLLD(LLLD)a

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<223> /replace="D-amino acid"

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<400> 29

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5

<210> 30
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DLLLDLLLD

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<223> /replace="D-amino acid"

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<400> 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
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<212> PRT
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<222> (2)..(4)
<223> Xaa can be any naturally occurring amino acid

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<222> (5)..(5)
<223> Arg is D-enantiomeric Arg

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<222> (6)..(8)
<223> Xaa can be any naturally occurring amino acid

<220>
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<222> (9)..(9)
<223> Arg is D-enantiomeric Arg

<400> 31

Arg Xaa Xaa Xaa Arg Xaa Xaa Xaa Arg
1 5

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<223> r3 (generic; right half)

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<220>
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<220>
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<220>
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<400> 32

Arg Lys Lys Arg Arg Xaa Xaa Xaa Arg
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<400> 33

Arg Xaa Xaa Xaa Arg Gln Arg Arg Arg
1 5

<210> 34
<211> 9
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<222> (7)..(7)
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<222> (8)..(8)
<223> Xaa is R or any other naturally occuring amino acid

<220>
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<223> Arg is D-enantiomeric Arg

<400> 34

Arg Xaa Xaa Xaa Arg Xaa Xaa Xaa Arg
1 5

<210> 35
<211> 86
<212> PRT
<213> Human immunodeficiency virus type 1

<220>
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<400> 35

Met Glu Pro Val Asp Pro Arg Leu Glu Pro Trp Lys His Pro Gly Ser
1 5 10 15

Gln Pro Lys Thr Ala Cys Thr Asn Cys Tyr Cys Lys Lys Cys Cys Phe
20 25 30

His Cys Gln Val Cys Phe Ile Thr Lys Ala Leu Gly Ile Ser Tyr Gly
35 40 45

Arg Lys Lys Arg Arg Gln Arg Arg Arg Pro Pro Gln Gly Ser Gln Thr
50 55 60

His Gln Val Ser Leu Ser Lys Gln Pro Thr Ser Gln Ser Arg Gly Asp
65 70 75 80

Pro Thr Gly Pro Lys Glu
85

<210> 36
<211> 36
<212> PRT

<213> Human immunodeficiency virus type 1

<220>
<221> misc_feature
<223> Description of sequence: HIV-1 TAT sequence (aa 37-72)

<400> 36

Cys Phe Ile Thr Lys Ala Leu Gly Ile Ser Tyr Gly Arg Lys Lys Arg
1 5 10 15

Arg Gln Arg Arg Arg Pro Pro Gln Gly Ser Gln Thr His Gln Val Ser
20 25 30

Leu Ser Lys Gln
35

<210> 37
<211> 22
<212> PRT
<213> Human immunodeficiency virus type 1

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<223> Description of sequence: HIV-1 TAT sequence (aa 37-58)

<400> 37

Cys Phe Ile Thr Lys Ala Leu Gly Ile Ser Tyr Gly Arg Lys Lys Arg
1 5 10 15

Arg Gln Arg Arg Arg Pro
20

<210> 38
<211> 24
<212> PRT
<213> Human immunodeficiency virus type 1

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<223> Description of sequence: HIV-1 TAT sequence (aa 38-58) including an additional N-terminal GCC

<400> 38

Phe Ile Thr Lys Ala Leu Gly Ile Ser Tyr Gly Arg Lys Lys Arg Arg
1 5 10 15

Gln Arg Arg Arg Pro Gly Gly Cys
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<210> 39
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<212> PRT
<213> Human immunodeficiency virus type 1

<220>

<221> misc_feature
<223> Description of sequence: HIV-1 TAT sequence (aa 47-58) including an additional C-terminal GCC

<400> 39

Cys Gly Gly Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg Pro
1 5 10 15

<210> 40
<211> 15
<212> PRT
<213> Human immunodeficiency virus type 1

<220>
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<223> Description of sequence: HIV-1 TAT sequence (aa 47-58) including an additional N-terminal GCC

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Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg Pro Gly Gly Cys
1 5 10 15

<210> 41
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<213> Human immunodeficiency virus type 1

<220>
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<223> Description of sequence: HIV-1 TAT sequence (aa 1-72) including a mutated Cys to Ala residue at position 37

<400> 41

Met Glu Pro Val Asp Pro Arg Leu Glu Pro Trp Lys His Pro Gly Ser
1 5 10 15

Gln Pro Lys Thr Ala Phe Ile Thr Lys Ala Leu Gly Ile Ser Tyr Gly
20 25 30

Arg Lys Lys Arg Arg Gln Arg Arg Arg Pro Pro Gln Gly Ser Gln Thr
35 40 45

His Gln Val Ser Leu Ser Lys Gln
50 55

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Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg
1 5 10

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<211> 9
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<400> 43

Arg Lys Lys Arg Arg Gln Arg Arg Arg
1 5

<210> 44
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of sequence: trafficking sequence L-TAT (s1c)

<400> 44

Tyr Asp Arg Lys Lys Arg Arg Gln Arg Arg Arg
1 5 10

<210> 45
<211> 9
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<220>
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<223> all amino acids are D-enantiomeric amino acids

<400> 45

Arg Arg Arg Gln Arg Arg Lys Lys Arg
1 5

<210> 46
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<221> Variant
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Arg Lys Lys Arg Arg Gln Arg Arg Arg
1 5

<210> 47
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<220>
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<223> Arg is D-enantiomeric Arg

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<400> 138

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<400> 139

Arg Lys Lys Arg Arg Trp Arg Arg Arg
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<223> Arg is D-enantiomeric Arg

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Arg Tyr Lys Arg Arg Gln Arg Arg Arg
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<400> 146

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1 5

<210> 147
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<212> PRT
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<223> Arg is D-enantiomeric Arg

<400> 147

Arg Lys Lys Arg Arg Gln Arg Tyr Arg
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<223> Arg is D-enantiomeric Arg

<400> 148

Arg Lys Lys Arg Arg Gln Arg Arg
1 5

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1 5

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<212> PRT
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<400> 150

Arg Lys Lys Arg Arg Gln Arg Arg Arg
1 5

<210> 151
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<223> /replace="D-enatiomeric amino acid arginine"

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<222> (5)..(5)
<223> /replace="D-enatiomeric amino acid arginine"

<220>
<221> VARIANT
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<223> /replace="D-enatiomeric amino acid arginine"

<400> 151

Arg Arg Arg Arg Arg Arg Arg Arg Arg
1 5

<210> 152
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> trafficking sequence L-R9

<400> 152

Arg Arg Arg Arg Arg Arg Arg Arg Arg
1 5

<210> 153
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<212> PRT
<213> Artificial Sequence

<220>
<223> trafficking sequence L-R8

<400> 153

Arg Arg Arg Arg Arg Arg Arg Arg
1 5

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<211> 7
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<220>
<223> trafficking sequence L-R7

<400> 154

Arg Arg Arg Arg Arg Arg Arg
1 5

<210> 155
<211> 6
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<220>
<223> trafficking sequence L-R6

<400> 155

Arg Arg Arg Arg Arg Arg
1 5

<210> 156
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> trafficking sequence L-R5

<400> 156

Arg Arg Arg Arg Arg
1 5

<210> 157
<211> 9
<212> PRT
<213> Artificial

<220>
<223> all D transporter construct (all amino acid residues are D-amino acids)

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<223> Arg is D-enantiomeric Arg

<400> 157

Arg Arg Arg Arg Arg Arg Arg Arg Arg
1 5

<210> 158
<211> 9
<212> PRT
<213> Artificial

<220>
<223> Description of sequence: D/L transporter construct (D and L amino acid residues alternate, beginning wit D amino acids)

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<223> Arg is D-enantiomeric Arg

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<223> Arg is D-enantiomeric Arg

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<223> Arg is D-enantiomeric Arg

<400> 158

Arg Arg Arg Arg Arg Arg Arg Arg Arg
1 5

<210> 159
<211> 9
<212> PRT
<213> Artificial

<220>
<223> Description of sequence: DD/LL transporter construct

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<223> Arg is D-enantiomeric Arg

<220>
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<223> Arg is D-enantiomeric Arg

<400> 159

Arg Arg Arg Arg Arg Arg Arg Arg Arg
1 5

<210> 160
<211> 11
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<220>
<223> trafficking sequence PTD-4

<400> 160

Tyr Ala Arg Ala Ala Ala Arg Gln Ala Arg Ala
1 5 10

<210> 161
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> trafficking sequence PTD-4

<400> 161

Trp Ala Arg Ala Ala Ala Arg Gln Ala Arg Ala
1 5 10

<210> 162
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> trafficking sequence PTD-4

<400> 162

Trp Ala Arg Ala Gln Arg Ala Ala Ala Arg Ala
1 5 10

<210> 163
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> trafficking sequence L-P1 (Penetratin)

<400> 163

Arg Gln Val Lys Val Trp Phe Gln Asn Arg Arg Met Lys Trp Lys Lys
1 5 10 15

<210> 164
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> trafficking sequence D-P1 (Penetratin)

<400> 164

Lys Lys Trp Lys Met Arg Arg Asn Gln Phe Trp Val Lys Val Gln Arg
1 5 10 15

<210> 165
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> trafficking sequence JNK1, bestfit

<400> 165

Trp Lys Arg Ala Ala Ala Arg Lys Ala Arg Ala Met Ser Leu Asn Leu
1 5 10 15

Phe

<210> 166
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> trafficking sequence JNK1, bestfit (variant 1)

<400> 166

Trp Lys Arg Ala Ala Ala Arg Ala Ala Arg Ala Met Ser Leu Asn Leu
1 5 10 15

Phe

<210> 167
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<220>
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<400> 167

Arg Tyr Arg Gly Asp Leu Gly Arg Arg
1 5

<210> 168
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<220>
<223> trafficking sequence YKGL

<400> 168

Tyr Lys Gly Leu
1

<210> 169
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<220>
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<400> 169

Arg Arg Thr Lys
1

<210> 170
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<220>
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<400> 170

Arg Arg Pro Lys
1

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<213> Artificial

<220>
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<223> Lys is D-enantiomeric Lys

<220>
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<400> 171

Arg Lys Lys Arg Arg Gln Arg Arg Arg Arg Pro Lys Arg Pro Thr Thr
1 5 10 15

Leu Asn Leu Phe
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<400> 172

Arg Lys Lys Arg Arg Gln Arg Arg Arg Arg Pro Lys Arg Pro Ala Thr
1 5 10 15

Leu Asn Leu Phe
20

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<400> 173

Arg Lys Lys Arg Arg Gln Arg Arg Arg Arg Pro Lys Arg Pro Thr Thr
1 5 10 15

Leu Arg Leu Phe
20

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Arg Lys Lys Arg Arg Gln Arg Arg Arg Arg Pro Thr Thr Leu Asn Leu
1 5 10 15

Phe

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<400> 175

Arg Lys Lys Arg Arg Gln Arg Arg Arg Pro Thr Thr Leu Asn Leu Phe
1 5 10 15

<210> 176
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<400> 176

Arg Lys Lys Arg Arg Gln Arg Arg Arg Arg Pro Lys Arg Pro Thr Thr
1 5 10 15

Leu Asn Leu Trp
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<400> 177

Arg Lys Lys Arg Arg Gln Arg Arg Arg Arg Pro Lys Arg Pro Thr Asp
1 5 10 15

Leu Asn Leu Phe
20

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<400> 178

Arg Lys Lys Arg Arg Gln Arg Arg Arg Arg Pro Thr Thr Leu Arg Leu
1 5 10 15

Trp

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<400> 179

Arg Lys Lys Arg Arg Gln Arg Arg Arg Pro Thr Thr Leu Arg Leu Trp
1 5 10 15

<210> 180
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1 5 10 15

Trp

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<400> 181

Arg Lys Lys Arg Arg Gln Arg Arg Arg Pro Thr Asp Leu Arg Leu Trp
1 5 10 15

<210> 182
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<220>
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<400> 182

Arg Lys Lys Arg Arg Gln Arg Arg Arg Arg Pro Ala Thr Leu Asn Leu
1 5 10 15

Phe

<210> 183
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<220>
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<220>
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<223> Ala is D-enantiomeric Ala

<220>
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<400> 183

Arg Lys Lys Arg Arg Gln Arg Arg Arg Pro Ala Thr Leu Asn Leu Phe
1 5 10 15

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<220>
<223> rKKRrQRrKRPaTLNLf JNK inhibitor

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<220>
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<400> 184

Arg Lys Lys Arg Arg Gln Arg Arg Lys Arg Pro Ala Thr Leu Asn Leu
1 5 10 15

Phe

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<212> PRT
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<220>
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<222> (12)..(12)
<223> Lys is D-enantiomeric Lys

<220>
<221> Variant
<222> (15)..(15)
<223> Ser is D-enantiomeric Ser

<220>
<221> Variant
<222> (20)..(20)
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<400> 185

Arg Lys Lys Arg Arg Gln Arg Arg Arg Arg Pro Lys Arg Pro Ser Thr
1 5 10 15

Leu Asn Leu Phe
20

<210> 186
<211> 20
<212> PRT
<213> Artificial

<220>
<223> rKKRrQRRrRPkRPqTLNLf JNK inhibitor

<220>
<221> Variant
<222> (1)..(1)
<223> Arg is D-enantiomeric Arg

<220>
<221> Variant
<222> (5)..(5)
<223> Arg is D-enantiomeric Arg

<220>
<221> Variant
<222> (9)..(9)
<223> Arg is D-enantiomeric Arg

<220>
<221> Variant
<222> (12)..(12)
<223> Lys is D-enantiomeric Lys

<220>
<221> Variant
<222> (15)..(15)
<223> Gln is D-enantiomeric Gln

<220>
<221> Variant
<222> (20)..(20)
<223> Phe is D-enantiomeric Phe

<400> 186

Arg Lys Lys Arg Arg Gln Arg Arg Arg Arg Pro Lys Arg Pro Gln Thr
1 5 10 15

Leu Asn Leu Phe
20

<210> 187
<211> 20
<212> PRT
<213> Artificial

<220>
<223> rKKRrQRRrRPkRPkTLNLf JNK inhibitor

<220>
<221> Variant
<222> (1)..(1)
<223> Arg is D-enantiomeric Arg

<220>
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<222> (5)..(5)
<223> Arg is D-enantiomeric Arg

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<222> (9)..(9)
<223> Arg is D-enantiomeric Arg

<220>
<221> Variant
<222> (12)..(12)
<223> Lys is D-enantiomeric Lys

<220>
<221> Variant
<222> (15)..(15)
<223> Lys is D-enantiomeric Lys

<220>
<221> Variant
<222> (20)..(20)
<223> Phe is D-enantiomeric Phe

<400> 187

Arg Lys Lys Arg Arg Gln Arg Arg Arg Arg Pro Lys Arg Pro Lys Thr
1 5 10 15

Leu Asn Leu Phe
20

<210> 188
<211> 18
<212> PRT
<213> Artificial

<220>
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<220>
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<220>
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<222> (5)..(5)
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<222> (9)..(9)
<223> Arg is D-enantiomeric Arg

<220>

<221> Variant
<222> (18)..(18)
<223> Phe is D-enantiomeric Phe

<400> 188

Arg Lys Lys Arg Arg Gln Arg Arg Arg Gly Lys Arg Lys Ala Leu Lys
1 5 10 15

Leu Phe

<210> 189
<211> 18
<212> PRT
<213> Artificial

<220>
<223> rKKRrQRRrGKRKALrLf JNK inhibitor

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<220>
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<222> (5)..(5)
<223> Arg is D-enantiomeric Arg

<220>
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<222> (9)..(9)
<223> Arg is D-enantiomeric Arg

<220>
<221> Variant
<222> (16)..(16)
<223> Arg is D-enantiomeric Arg

<220>
<221> Variant
<222> (18)..(18)
<223> Phe is D-enantiomeric Phe

<400> 189

Arg Lys Lys Arg Arg Gln Arg Arg Arg Gly Lys Arg Lys Ala Leu Arg
1 5 10 15

Leu Phe

<210> 190
<211> 16
<212> PRT
<213> Artificial

<220>
<223> rKKRrQRRrRKALrLf JNK inhibitor

<220>
<221> Variant

<222> (1)..(1)
<223> Arg is D-enantiomeric Arg

<220>
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<222> (5)..(5)
<223> Arg is D-enantiomeric Arg

<220>
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<222> (9)..(9)
<223> Arg is D-enantiomeric Arg

<220>
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<222> (14)..(14)
<223> Arg is D-enantiomeric Arg

<220>
<221> Variant
<222> (16)..(16)
<223> Phe is D-enantiomeric Phe

<400> 190

Arg Lys Lys Arg Arg Gln Arg Arg Arg Arg Lys Ala Leu Arg Leu Phe
1 5 10 15

<210> 191
<211> 8
<212> PRT
<213> Artificial

<220>
<223> RPTTLNLF JNK inhibitor

<400> 191

Arg Pro Thr Thr Leu Asn Leu Phe
1 5

<210> 192
<211> 9
<212> PRT
<213> Artificial

<220>
<223> KRPTTLNLF JNK inhibitor

<400> 192

Lys Arg Pro Thr Thr Leu Asn Leu Phe
1 5

<210> 193
<211> 11
<212> PRT
<213> Artificial

<220>
<223> L-IB1(s24)

<400> 193

Arg Pro Lys Arg Pro Thr Thr Leu Asn Leu Phe
1 5 10

<210> 194
<211> 29
<212> PRT
<213> Artificial

<220>
<223> GRKKRRQRRRPPKRPTTLNLFPQVPRSQD JNK inhibitor

<400> 194

Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg Pro Pro Lys Arg Pro Thr
1 5 10 15

Thr Leu Asn Leu Phe Pro Gln Val Pro Arg Ser Gln Asp
20 25

<210> 195
<211> 25
<212> PRT
<213> Artificial

<220>
<223> GRKKRRQRRRPTTLNLFPQVPRSQD JNK inhibitor

<400> 195

Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg Pro Thr Thr Leu Asn Leu
1 5 10 15

Phe Pro Gln Val Pro Arg Ser Gln Asp
20 25

<210> 196
<211> 31
<212> PRT
<213> Artificial

<220>
<223> L-TAT-IB1

<400> 196

Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg Pro Pro Arg Pro Lys Arg
1 5 10 15

Pro Thr Thr Leu Asn Leu Phe Pro Gln Val Pro Arg Ser Gln Asp
20 25 30

<210> 197
<211> 31
<212> PRT
<213> Artificial

<220>
<223> D-TAT-IB1

<220>
<221> Variant
<222> (1)..(31)
<223> All amino acids are D-enantiomeric amino acids

<400> 197

Asp Gln Ser Arg Pro Val Gln Pro Phe Leu Asn Leu Thr Thr Pro Arg
1 5 10 15

Lys Pro Arg Pro Pro Arg Arg Arg Gln Arg Arg Lys Lys Arg Gly
20 25 30

<210> 198
<211> 39
<212> PRT
<213> Artificial

<220>
<223> cJun (29-67)

<400> 198

Ser Asn Pro Lys Ile Leu Lys Gln Ser Met Thr Leu Asn Leu Ala Asp
1 5 10 15

Pro Val Gly Ser Leu Lys Pro His Leu Arg Ala Lys Asn Ser Asp Leu
20 25 30

Leu Thr Ser Pro Asp Val Gly
35

<210> 199
<211> 20
<212> PRT
<213> Artificial

<220>
<223> RKKRRQRRRRPKRPATLNLF antibody negative control

<400> 199

Arg Lys Lys Arg Arg Gln Arg Arg Arg Arg Pro Lys Arg Pro Ala Thr
1 5 10 15

Leu Asn Leu Phe
20