

SEQUENCE LISTING

<110> Scil Proteins GmbH
 <120> Novel proNGF mutants and uses thereof in the preparation of
 beta-NGF
 <130> P32092-WO
 <140> PCT/EP2012/076251
 <141> 2012-12-19
 <150> EP11194208.2
 <151> 2011-12-19
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 <170> PatentIn version 3.5
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 <212> PRT
 <213> homo sapiens
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Met Glu Pro His Ser Glu Ser Asn Val Pro Ala Gly His Thr Ile Pro
 1 5 10 15

Gln Val His Trp Thr Lys Leu Gln His Ser Leu Asp Thr Ala Leu Arg
 20 25 30

Arg Ala Arg Ser Ala Pro Ala Ala Ala Ile Ala Ala Arg Val Ala Gly
 35 40 45

Gln Thr Arg Asn Ile Thr Val Asp Pro Arg Leu Phe Lys Lys Arg Arg
 50 55 60

Leu Arg Ser Pro Arg Val Leu Phe Ser Thr Gln Pro Pro Arg Glu Ala
 65 70 75 80

Ala Asp Thr Gln Asp Leu Asp Phe Glu Val Gly Gly Ala Ala Pro Phe
 85 90 95

Asn Arg Thr His Arg Ser Lys Arg Ser Ser Ser His Pro Ile Phe His
 100 105 110

Arg Gly Glu Phe Ser Val Cys Asp Ser Val Ser Val Trp Val Gly Asp
 115 120 125

Lys Thr Thr Ala Thr Asp Ile Lys Gly Lys Glu Val Met Val Leu Gly
 130 135 140

Glu Val Asn Ile Asn Asn Ser Val Phe Lys Gln Tyr Phe Phe Glu Thr
 145 150 155 160

Lys Cys Arg Asp Pro Asn Pro Val Asp Ser Gly Cys Arg Gly Ile Asp
 165 170 175

Ser Lys His Trp Asn Ser Tyr Cys Thr Thr Thr His Thr Phe Val Lys
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Asp Thr Ala Cys Val Cys Val Leu Ser Arg Lys Ala Val Arg
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Gln Val His Trp Thr Lys Leu Gln His Ser Leu Asp Thr Ala Leu Arg
20 25 30

Arg Ala Arg Ser Ala Pro Ala Ala Ala Ile Ala Ala Arg Val Ala Gly
35 40 45

Gln Thr Arg Asn Ile Thr Val Asp Pro Arg Leu Phe Lys Lys Arg Arg
50 55 60

Leu Arg Ser Pro Arg Val Leu Phe Ser Thr Gln Pro Pro Arg Glu Ala
65 70 75 80

Ala Asp Thr Gln Asp Leu Asp Phe Glu Val Gly Gly Ala Ala Pro Phe
85 90 95

Asn Arg Thr His Val Ser Xaa Arg Ser Ser Ser His Pro Ile Phe His
100 105 110

Arg Gly Glu Phe Ser Val Cys Asp Ser Val Ser Val Trp Val Gly Asp
115 120 125

Lys Thr Thr Ala Thr Asp Ile Lys Gly Lys Glu Val Met Val Leu Gly
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Glu Val Asn Ile Asn Asn Ser Val Phe Lys Gln Tyr Phe Phe Glu Thr
145 150 155 160

Lys Cys Arg Asp Pro Asn Pro Val Asp Ser Gly Cys Arg Gly Ile Asp
165 170 175

Ser Lys His Trp Asn Ser Tyr Cys Thr Thr Thr His Thr Phe Val Lys
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Asp Thr Ala Cys Val Cys Val Leu Ser Arg Lys Ala Val Arg
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Gln Val His Trp Thr Lys Leu Gln His Ser Leu Asp Thr Ala Leu Arg
20 25 30

Arg Ala Arg Ser Ala Pro Ala Ala Ala Ile Ala Ala Arg Val Ala Gly
35 40 45

Gln Thr Arg Asn Ile Thr Val Asp Pro Arg Leu Phe Lys Lys Arg Arg
50 55 60

Leu Arg Ser Pro Arg Val Leu Phe Ser Thr Gln Pro Pro Arg Glu Ala
65 70 75 80

Ala Asp Thr Gln Asp Leu Asp Phe Glu Val Gly Gly Ala Ala Pro Phe
85 90 95

Asn Arg Thr His Xaa Ser Xaa Arg Ser Ser Ser His Pro Ile Phe His
100 105 110

Arg Gly Glu Phe Ser Val Cys Asp Ser Val Ser Val Trp Val Gly Asp
115 120 125

Lys Thr Thr Ala Thr Asp Ile Lys Gly Lys Glu Val Met Val Leu Gly
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Glu Val Asn Ile Asn Asn Ser Val Phe Lys Gln Tyr Phe Phe Glu Thr
145 150 155 160

Lys Cys Arg Asp Pro Asn Pro Val Asp Ser Gly Cys Arg Gly Ile Asp
165 170 175

Ser Lys His Trp Asn Ser Tyr Cys Thr Thr Thr His Thr Phe Val Lys
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35 40 45

Gln Thr Arg Asn Ile Thr Val Asp Pro Arg Leu Phe Lys Lys Arg Arg
50 55 60

Leu Arg Ser Pro Arg Val Leu Phe Ser Thr Gln Pro Pro Arg Glu Ala
65 70 75 80

Ala Asp Thr Gln Asp Leu Asp Phe Glu Val Gly Gly Ala Ala Pro Phe
85 90 95

Asn Arg Thr His Xaa Ser Ala Arg Ser Ser Ser His Pro Ile Phe His
100 105 110

Arg Gly Glu Phe Ser Val Cys Asp Ser Val Ser Val Trp Val Gly Asp
 115 120 125

Lys Thr Thr Ala Thr Asp Ile Lys Gly Lys Glu Val Met Val Leu Gly
 130 135 140

Glu Val Asn Ile Asn Asn Ser Val Phe Lys Gln Tyr Phe Phe Glu Thr
 145 150 155 160

Lys Cys Arg Asp Pro Asn Pro Val Asp Ser Gly Cys Arg Gly Ile Asp
 165 170 175

Ser Lys His Trp Asn Ser Tyr Cys Thr Thr Thr His Thr Phe Val Lys
 180 185 190

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

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 35 40 45

Gln Thr Arg Asn Ile Thr Val Asp Pro Arg Leu Phe Lys Lys Arg Arg
 50 55 60

Leu Arg Ser Pro Arg Val Leu Phe Ser Thr Gln Pro Pro Arg Glu Ala
 65 70 75 80

Ala Asp Thr Gln Asp Leu Asp Phe Glu Val Gly Gly Ala Ala Pro Phe
 85 90 95

Asn Arg Thr His Val Ser Ala Arg Ser Ser Ser His Pro Ile Phe His
 100 105 110

Arg Gly Glu Phe Ser Val Cys Asp Ser Val Ser Val Trp Val Gly Asp
 115 120 125

Lys Thr Thr Ala Thr Asp Ile Lys Gly Lys Glu Val Met Val Leu Gly
 130 135 140

Glu Val Asn Ile Asn Asn Ser Val Phe Lys Gln Tyr Phe Phe Glu Thr
 145 150 155 160

Lys Cys Arg Asp Pro Asn Pro Val Asp Ser Gly Cys Arg Gly Ile Asp
 165 170 175

Ser Lys His Trp Asn Ser Tyr Cys Thr Thr Thr His Thr Phe Val Lys
 180 185 190

Ala Leu Thr Met Asp Gly Lys Gln Ala Ala Trp Arg Phe Ile Arg Ile
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Asp Thr Ala Cys Val Cys Val Leu Ser Arg Lys Ala Val Arg
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Gln Val His Trp Thr Lys Leu Gln His Ser Leu Asp Thr Ala Leu Arg
 20 25 30

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5

6

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5

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4

5

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2

22

or

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1

Gln Val His Trp Thr Lys Leu Gln His Ser Leu Asp Thr Ala Leu Arg
 20 25 30

Arg Ala Arg Ser Ala Pro Ala Ala Ala Ile Ala Ala Arg Val Ala Gly
 35 40 45

Gln Thr Arg Asn Ile Thr Val Asp Pro Arg Leu Phe Lys Lys Arg Arg
 50 55 60

Leu Arg Ser Pro Arg Val Leu Phe Ser Thr Gln Pro Pro Arg Glu Ala
 65 70 75 80

Ala Asp Thr Gln Asp Leu Asp Phe Glu Val Gly Gly Ala Ala Pro Phe
 85 90 95

Asn Arg Thr His Val Xaa Ala Arg Ser Ser Ser His Pro Ile Phe His
 100 105 110

Arg Gly Glu Phe Ser Val Cys Asp Ser Val Ser Val Trp Val Gly Asp
 115 120 125

Lys Thr Thr Ala Thr Asp Ile Lys Gly Lys Glu Val Met Val Leu Gly
 130 135 140

Glu Val Asn Ile Asn Asn Ser Val Phe Lys Gln Tyr Phe Phe Glu Thr
 145 150 155 160

Lys Cys Arg Asp Pro Asn Pro Val Asp Ser Gly Cys Arg Gly Ile Asp
 165 170 175

Ser Lys His Trp Asn Ser Tyr Cys Thr Thr Thr His Thr Phe Val Lys
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Asp Thr Ala Cys Val Cys Val Leu Ser Arg Lys Ala Val Arg
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