SEQUENCE LISTING

<110> Scott Walsh
Terra Potocky
Daniel Dix
Renuka Sivendran

<120> Stabilized Formulations Containing Anti-NGF Antibodies

<130> 6066PCT

<140> To be assigned
<141> Filed herewith

<150> 61/364,112
<151> 2010-07-14

<160> 31

<170> FastSEQ for Windows Version 4.0

<210> 1
<211> 847
<212> DNA
<213> Homo sapiens

<400> 1
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ggtgcatagc gtaatgtcca tgttgttcta cactctgatc acagcttttc tgatcggcat 120
acaggcggaa ccacactcag agagcaatgt ccctgcagga cacaccatcc cccaagccca 180
ctggactaaa cttcagcatt cccttgacac tgcccttcgc agagcccgca gcgccccggc 240
agcggcgata gctgcacgcg tggcggggca gacccgcaac attactgtgg accccaggct 300
gtttaaaaag cggcgactcc gttcaccccg tgtgctgttt agcacccagc ctccccgtga 360
agctgcagac actcaggatc tggacttcga ggtcggtggt gctgcccccct tcaacaggac 420
tcacaggagc aagcggtcat catcccatcc catcttccac aggggcgaat tctcggtgtg 480
tgacagtgtc agcgtgtggg ttggggataa gaccaccgcc acagacatca agggcaagga 540
ggtgatggtg ttgggagagg tgagcattaa caacagtgta ttcaaacagt actttttttga 600
gaccaagtgc cgggacccaa atcccgttga cagcgggtgc cggggcattg actcaaagca 660
ctggaactca tattgtacca cgactcacac ctttgtcaag gcgctgacca tggatggcaa 720
gcaggctgcc tggcggttta tccggataga tacggcctgt atgtgtgtgc tcagcaggaa 780
ggctgtgaga agagcctgac ctgccgacac gctccctccc cctgcccctt ctacactctc 840
ctgggcc 847

<210> 2
<211> 115
<212> PRT
<213> Homo sapiens

<400> 2
Ser Ser Ser His Pro Ile Phe His Arg Gly Glu Phe Ser Val Val Ser
 1               5                  10                  15
Val Trp Val Gly Asp Lys Thr Thr Ala Thr Asp Ile Lys Gly Lys Glu
            20                  25                  30
Val Met Val Leu Gly Glu Val Asn Ile Asn Asn Ser Val Phe Lys Gln
        35                  40                  45
Tyr Phe Phe Glu Thr Lys Cys Arg Asp Pro Asn Pro Val Asp Ser Gly
    50                  55                  60
Cys Arg Gly Ile Asp Ser Lys His Trp Asn Ser Tyr Cys Thr Thr Thr
65                  70                  75                  80
His Thr Phe Ala Leu Thr Met Asp Gly Lys Gln Ala Ala Trp Arg Phe
                85                  90                  95
Ile Arg Ile Asp Thr Ala Cys Val Cys Val Leu Ser Arg Lys Ala Val

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            100                 105                 110
Arg Arg Ala
        115


<210> 3
<211> 357
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 3
caggtgcagc tggtgcagtc cggcgccgag gtgaagaagc ccggcgcctc cgtgaaggtg 60
tcctgcaagg tgtccggctt caccctgacc gagctgtcca tgcactgggt gcggcaggcc 120
cccggcaagg gcctggagtg gatgggcggc ttcgaccccg aggacggcga gaccatctac 180
gcccagaagt tccagggccg ggtgaccatg accgaggaca cctccaccga caccgcctac 240
atggagctgt cctccctgcg gtccgaggac accgccgtgt actactgctc caccatcttc 300
ggcgtggtga ccaacttcga caactggggc cagggcaccc tggtgaccgt gtcctcc    357

<210> 4
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 4
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1               5                  10                  15
Ser Val Lys Val Ser Cys Lys Val Ser Gly Phe Thr Leu Thr Glu Leu
            20                  25                  30
Ser Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Met
        35                  40                  45
Gly Gly Phe Asp Pro Glu Asp Gly Glu Thr Ile Tyr Ala Gln Lys Phe
    50                  55                  60
Gln Gly Arg Val Thr Met Thr Glu Asp Thr Ser Thr Asp Thr Ala Tyr
65                  70                  75                  80
Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
                85                  90                  95
Ser Thr Ile Phe Gly Val Val Thr Asn Phe Asp Asn Trp Gly Gln Gly
            100                 105                 110
Thr Leu Val Thr Val Ser Ser
        115


<210> 5
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 5
ggattcaccc tcactgaatt atcc                                          24

<210> 6
<211> 8
<212> PRT
<213> Artificial Sequence
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<220>
<223> Synthetic

<400> 6
Gly Phe Thr Leu Thr Glu Leu Ser
 1               5


<210> 7
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 7
tttgatcctg aagatggtga aaca                                          24

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

<220>
<223> Synthetic

<400> 8
Phe Asp Pro Glu Asp Gly Glu Thr
 1               5


<210> 9
<211> 36
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 9
tcaacgattt ttggagtggt taccaacttt gacaac                             36

<210> 10
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 10
Ser Thr Ile Phe Gly Val Val Thr Asn Phe Asp Asn
 1               5                   10


<210> 11
<211> 324
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 11
gacatccaga tgacccagtc cccctcctcc ctgtccgcct ccgtgggcga ccgggtgacc 60
atcacctgcc gggcctccca ggccatccgg aacgacctgg gctggtacca gcagaagccc 120
ggcaaggccc ccaagcggct gatctacgcc gccttcaacc tgcagtccgg cgtgccctcc 180
cggttctccg gctccggctc cggcaccgag ttcaccctga ccatctcctc cctgcagccc 240
gaggacttcg ccacctacta ctgccagcag tacaaccggt acccctggac cttcggccag 300
ggcaccaagg tggagatcaa gcgg 324

<210> 12
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 12
Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1               5                  10                  15
Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ala Ile Arg Asn Asp
            20                  25                  30
Leu Gly Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Arg Leu Ile
        35                  40                  45
Tyr Ala Ala Phe Asn Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
    50                  55                  60
Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65                  70                  75                  80
Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Tyr Asn Arg Tyr Pro Trp
                85                  90                  95
Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg
            100                 105


<210> 13
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 13
caggccatta gaaatgat 18

<210> 14
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 14
Gln Ala Ile Arg Asn Asp
 1               5


<210> 15
<211> 9
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 15
gctgcattc 9

<210> 16
<211> 3
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 16
Ala Ala Phe
1

<210> 17
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 17
caacagtata atagataccc gtggacg 27

<210> 18
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 18
Gln Gln Tyr Asn Arg Tyr Pro Trp Thr
1 5

<210> 19
<211> 357
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 19
caggtgcagc tggtgcagtc tggggctgag gtgaagaagc ctggggcctc agtgaaggtc 60
tcctgcaagg tttccggatt caccctcact gaattatcca ttcactgggt gcgacaggct 120
cctggaaaag ggcttgagtg gatgggaggt tttgatcctg aagatggtga aacaatctac 180
gcacagaagt tccagggcag agtcaccatg accgaggaca catctacaga cacagcctac 240
atggagctga ccagcctgag atcggaagac acggccgtgt attactgttc aacgattttt 300
ggagtggtta ccaactttga caactggggc cagggaaccc tggtcaccgt ctcctca 357

<210> 20
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 20
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1               5                  10                  15
Ser Val Lys Val Ser Cys Lys Val Ser Gly Phe Thr Leu Thr Glu Leu
            20                  25                  30
Ser Ile His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Met
        35                  40                  45
Gly Gly Phe Asp Pro Glu Asp Gly Glu Thr Ile Tyr Ala Gln Lys Phe
    50                  55                  60
Gln Gly Arg Val Thr Met Thr Glu Asp Thr Ser Thr Asp Thr Ala Tyr
65                  70                  75                  80
Met Glu Leu Thr Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
                85                  90                  95
Ser Thr Ile Phe Gly Val Val Thr Asn Phe Asp Asn Trp Gly Gln Gly
            100                 105                 110
Thr Leu Val Thr Val Ser Ser
        115


<210> 21
<211> 324
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 21
gacatccaga tgacccagtc tccatcctcc ctgtctgcat ctgcaggaga cagagtcacc 60
atcacttgcc gggcaagtca ggccattaga aatgatttag gctggtatca gcagaaacca 120
gggaaagccc ctaagcgcct gatctatgct gcattcaatt tgcaaagtgg ggtcccatca 180
agattcagcg gcagtggatc tgggacagaa ttcactctca caatcagtag cctgcagcct 240
gaagatcttg caagttatta ctgtcaacag tataatagat acccgtggac gttcggccaa 300
gggaccaagg tggaaatcaa acga                                        324

<210> 22
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 22
Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Ala Gly
 1               5                  10                  15
Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ala Ile Arg Asn Asp
            20                  25                  30
Leu Gly Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Arg Leu Ile
        35                  40                  45
Tyr Ala Ala Phe Asn Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
    50                  55                  60
Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65                  70                  75                  80
Glu Asp Leu Ala Ser Tyr Tyr Cys Gln Gln Tyr Asn Arg Tyr Pro Trp
                85                  90                  95
Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg
            100                 105


<210> 23
<211> 8
<212> PRT

<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> VARIANT
<222> (1)...(8)
<223> Xaa = Any amino acid

<400> 23
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1               5


<210> 24
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> VARIANT
<222> (1)...(8)
<223> Xaa = Any amino acid

<400> 24
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1               5


<210> 25
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> VARIANT
<222> (1)...(18)
<223> Xaa = Any amino acid

<400> 25
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1               5                  10                  15
Xaa Xaa


<210> 26
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> VARIANT
<222> (1)...(6)

<223> Xaa = Any amino acid

<400> 26
Xaa Xaa Xaa Xaa Xaa Xaa
 1               5


<210> 27
<211> 3
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> VARIANT
<222> (1)...(3)
<223> Xaa = Any amino acid

<400> 27
Xaa Xaa Xaa
 1


<210> 28
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> VARIANT
<222> (1)...(9)
<223> Xaa = Any amino acid

<400> 28
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1               5


<210> 29
<211> 330
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 29
Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys
 1               5                  10                  15
Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr
            20                  25                  30
Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
        35                  40                  45
Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
    50                  55                  60
Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
65                  70                  75                  80
Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys
                85                  90                  95

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Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys
            100                 105                 110
Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
        115                 120                 125
Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
    130                 135                 140
Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp
145                 150                 155                 160
Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
                165                 170                 175
Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
            180                 185                 190
His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
        195                 200                 205
Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
    210                 215                 220
Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu
225                 230                 235                 240
Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
                245                 250                 255
Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
            260                 265                 270
Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
        275                 280                 285
Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn
    290                 295                 300
Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
305                 310                 315                 320
Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
                325                 330
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<210> 30
<211> 327
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 30

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Ser Thr Ser Glu Ser Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr
            20                  25                  30
Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
        35                  40                  45
Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
    50                  55                  60
Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Lys Thr
65                  70                  75                  80
Tyr Thr Cys Asn Val Asp His Lys Pro Ser Asn Thr Lys Val Asp Lys
                85                  90                  95
Arg Val Glu Ser Lys Tyr Gly Pro Pro Cys Pro Ser Cys Pro Ala Pro
            100                 105                 110
Glu Phe Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys
        115                 120                 125
Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val
    130                 135                 140
Asp Val Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr Val Asp
145                 150                 155                 160
Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Phe
                165                 170                 175
Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp
```

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            180                 185                 190
Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu
        195                 200                 205
Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg
    210                 215                 220
Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu Met Thr Lys
225                 230                 235                 240
Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp
                245                 250                 255
Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys
            260                 265                 270
Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser
        275                 280                 285
Arg Leu Thr Val Asp Lys Ser Arg Trp Gln Glu Gly Asn Val Phe Ser
    290                 295                 300
Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser
305                 310                 315                 320
Leu Ser Leu Ser Leu Gly Lys
                325
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<210> 31
<211> 327
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 31

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Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Cys Ser Arg
 1               5                  10                  15
Ser Thr Ser Glu Ser Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr
            20                  25                  30
Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
        35                  40                  45
Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
    50                  55                  60
Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Lys Thr
65                  70                  75                  80
Tyr Thr Cys Asn Val Asp His Lys Pro Ser Asn Thr Lys Val Asp Lys
                85                  90                  95
Arg Val Glu Ser Lys Tyr Gly Pro Pro Cys Pro Pro Cys Pro Ala Pro
            100                 105                 110
Glu Phe Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys
        115                 120                 125
Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val
    130                 135                 140
Asp Val Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr Val Asp
145                 150                 155                 160
Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Phe
                165                 170                 175
Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp
            180                 185                 190
Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu
        195                 200                 205
Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg
    210                 215                 220
Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu Met Thr Lys
225                 230                 235                 240
Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp
                245                 250                 255
Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys
            260                 265                 270
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Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser
        275                 280                 285
Arg Leu Thr Val Asp Lys Ser Arg Trp Gln Glu Gly Asn Val Phe Ser
    290                 295                 300
Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser
305                 310                 315                 320
Leu Ser Leu Ser Leu Gly Lys
                325
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