SEQUENCE LISTING

<110> Helsingin yliopisto

<120> C-terminal CDNF and MANF fragments, pharmaceutical compositions comprising same and uses thereof

<130> HY18PCT

<150> FI20175392

<151> 2017-05-04

<160> 10

<170> BiSSAP 1.3

<210> 1
<211> 81
<212> PRT
<213> Homo sapiens

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

<210> 2
<211> 78
<212> PRT
<213> Homo sapiens

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

<210> 3
<211> 81
<212> PRT
<213> Homo sapiens

<220>
<221> VARIANT
<222> 53..54
<223> Xaa is any amino acid

<400> 3

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Met Pro Ala Met Lys Ile Cys Glu Lys Leu Lys Lys Leu Asp Ser Gln
1               5                   10                  15
Ile Cys Glu Leu Lys Tyr Glu Lys Thr Leu Asp Leu Ala Ser Val Asp
            20                  25                  30
Leu Arg Lys Met Arg Val Ala Glu Leu Lys Gln Ile Leu His Ser Trp
        35                  40                  45
Gly Glu Glu Cys Xaa Xaa Cys Ala Glu Lys Thr Asp Tyr Val Asn Leu
    50                  55                  60
Ile Gln Glu Leu Ala Pro Lys Tyr Ala Ala Thr His Pro Lys Thr Glu
65                  70                  75                  80
Leu
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<210> 4
<211> 61
<212> PRT
<213> Homo sapiens

<400> 4

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Lys Tyr Glu Lys Thr Leu Asp Leu Ala Ser Val Asp Leu Arg Lys Met
1               5                   10                  15
Arg Val Ala Glu Leu Lys Gln Ile Leu His Ser Trp Gly Glu Glu Cys
            20                  25                  30
Arg Ala Cys Ala Glu Lys Thr Asp Tyr Val Asn Leu Ile Gln Glu Leu
        35                  40                  45
Ala Pro Lys Tyr Ala Ala Thr His Pro Lys Thr Glu Leu
    50                  55                  60
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<210> 5
<211> 63
<212> PRT
<213> Homo sapiens

<400> 5

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Lys Tyr Asp Lys Gln Ile Asp Leu Ser Thr Val Asp Leu Lys Lys Leu
1               5                   10                  15
Arg Val Lys Glu Leu Lys Lys Ile Leu Asp Asp Trp Gly Glu Thr Cys
            20                  25                  30
Lys Gly Cys Ala Glu Lys Ser Asp Tyr Ile Arg Lys Ile Asn Glu Leu
        35                  40                  45
Met Pro Lys Tyr Ala Pro Lys Ala Ala Ser Ala Arg Thr Asp Leu
    50                  55                  60
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<210> 6
<211> 68
<212> PRT
<213> Homo sapiens

<220>
<221> VARIANT
<222> 38..39
<223> Xaa is any amino acid.

<400> 6

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Gln Ile Cys Glu Leu Lys Tyr Asp Lys Gln Ile Asp Leu Ser Thr Val
1               5                   10                  15
Asp Leu Lys Lys Leu Arg Val Lys Glu Leu Lys Lys Ile Leu Asp Asp
            20                  25                  30
Trp Gly Glu Thr Cys Xaa Xaa Cys Ala Glu Lys Ser Asp Tyr Ile Arg
        35                  40                  45
Lys Ile Asn Glu Leu Met Pro Lys Tyr Ala Pro Lys Ala Ala Ser Ala
    50                  55                  60
Arg Thr Asp Leu
65
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<210> 7
<211> 161
<212> PRT
<213> Homo sapiens

<400> 7
Gln Glu Ala Gly Gly Arg Pro Gly Ala Asp Cys Glu Val Cys Lys Glu
1   5   10   15
Phe Leu Asn Arg Phe Tyr Lys Ser Leu Ile Asp Arg Gly Val Asn Phe
            20   25   30
Ser Leu Asp Thr Ile Glu Lys Glu Leu Ile Ser Phe Cys Leu Asp Thr
        35   40   45
Lys Gly Lys Glu Asn Arg Leu Cys Tyr Tyr Leu Gly Ala Thr Lys Asp
    50   55   60
Ala Ala Thr Lys Ile Leu Ser Glu Val Thr Arg Pro Met Ser Val His
65   70   75   80
Met Pro Ala Met Lys Ile Cys Glu Lys Leu Lys Lys Leu Asp Ser Gln
                85   90   95
Ile Cys Glu Leu Lys Tyr Glu Lys Thr Leu Asp Leu Ala Ser Val Asp
            100   105   110
Leu Arg Lys Met Arg Val Ala Glu Leu Lys Gln Ile Leu His Ser Trp
        115   120   125
Gly Glu Glu Cys Arg Ala Cys Ala Glu Lys Thr Asp Tyr Val Asn Leu
    130   135   140
Ile Gln Glu Leu Ala Pro Lys Tyr Ala Ala Thr His Pro Lys Thr Glu
145   150   155   160
Leu

<210> 8
<211> 100
<212> PRT
<213> Homo sapiens

<400> 8
Gln Glu Ala Gly Gly Arg Pro Gly Ala Asp Cys Glu Val Cys Lys Glu
1   5   10   15
Phe Leu Asn Arg Phe Tyr Lys Ser Leu Ile Asp Arg Gly Val Asn Phe
            20   25   30
Ser Leu Asp Thr Ile Glu Lys Glu Leu Ile Ser Phe Cys Leu Asp Thr
        35   40   45
Lys Gly Lys Glu Asn Arg Leu Cys Tyr Tyr Leu Gly Ala Thr Lys Asp
    50   55   60
Ala Ala Thr Lys Ile Leu Ser Glu Val Thr Arg Pro Met Ser Val His
65   70   75   80
Met Pro Ala Met Lys Ile Cys Glu Lys Leu Lys Lys Leu Asp Ser Gln
                85   90   95
Ile Cys Glu Leu
            100

<210> 9
<211> 158
<212> PRT
<213> Homo sapiens

<400> 9
Leu Arg Pro Gly Asp Cys Glu Val Cys Ile Ser Tyr Leu Gly Arg Phe
1   5   10   15
Tyr Gln Asp Leu Lys Asp Arg Asp Val Thr Phe Ser Pro Ala Thr Ile
            20   25   30
Glu Asn Glu Leu Ile Lys Phe Cys Arg Glu Ala Arg Gly Lys Glu Asn
        35   40   45
Arg Leu Cys Tyr Tyr Ile Gly Ala Thr Asp Asp Ala Ala Thr Lys Ile

```
    50                  55                  60
Ile Asn Glu Val Ser Lys Pro Leu Ala His His Ile Pro Val Glu Lys
65                  70                  75                  80
Ile Cys Glu Lys Leu Lys Lys Lys Asp Ser Gln Ile Cys Glu Leu Lys
                85                  90                  95
Tyr Asp Lys Gln Ile Asp Leu Ser Thr Val Asp Leu Lys Lys Leu Arg
            100                 105                 110
Val Lys Glu Leu Lys Lys Ile Leu Asp Asp Trp Gly Glu Thr Cys Lys
        115                 120                 125
Gly Cys Ala Glu Lys Ser Asp Tyr Ile Arg Lys Ile Asn Glu Leu Met
    130                 135                 140
Pro Lys Tyr Ala Pro Lys Ala Ala Ser Ala Arg Thr Asp Leu
145                 150                 155

<210> 10
<211> 95
<212> PRT
<213> Homo sapiens

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