

SEQUENCE LISTING

<110> Case Western Reserve University

<120> TDP-43 MITOCHONDRIAL LOCALIZATION INHIBITOR FOR THE TREATMENT OF
NEURODEGENERATIVE DISEASE

<130> CWR-025431WO ORD

<150> 62/328,484

<151> 2016-04-27

<150> 62/139,580

<151> 2016-04-07

<160> 19

<170> PatentIn version 3.5

<210> 1

<211> 7

<212> PRT

<213> Homo sapiens

<400> 1

Phe Pro Gly Ala Cys Gly Leu
1 5

<210> 2

<211> 8

<212> PRT

<213> Homo sapiens

<400> 2

Leu Ile Val Leu Gly Leu Pro Trp
1 5

<210> 3

<211> 5

<212> PRT

<213> Homo sapiens

<400> 3

Gly Phe Gly Phe Val
1 5

<210> 4
<211> 8
<212> PRT
<213> Homo sapiens

<400> 4

Ala Phe Ala Phe Val Thr Phe Ala
1 5

<210> 5
<211> 7
<212> PRT
<213> Homo sapiens

<400> 5

Gly Gly Gly Ala Gly Leu Gly
1 5

<210> 6
<211> 7
<212> PRT
<213> Homo sapiens

<400> 6

Gly Ala Ala Ile Gly Trp Gly
1 5

<210> 7
<211> 9
<212> PRT
<213> Homo sapiens

<400> 7

Ala Gln Phe Pro Gly Ala Cys Gly Leu
1 5

<210> 8
<211> 9
<212> PRT
<213> Homo sapiens

<400> 8

Ser Lys Gly Phe Gly Phe Val Arg Phe
1 5

<210> 9

<211> 9

<212> PRT

<213> Homo sapiens

<400> 9

Ser Arg Gly Gly Gly Ala Gly Leu Gly
1 5

<210> 10

<211> 414

<212> PRT

<213> Homo sapiens

<400> 10

Met Ser Glu Tyr Ile Arg Val Thr Glu Asp Glu Asn Asp Glu Pro Ile
1 5 10 15

Glu Ile Pro Ser Glu Asp Asp Gly Thr Val Leu Leu Ser Thr Val Thr
20 25 30

Ala Gln Phe Pro Gly Ala Cys Gly Leu Arg Tyr Arg Asn Pro Val Ser
35 40 45

Gln Cys Met Arg Gly Val Arg Leu Val Glu Gly Ile Leu His Ala Pro
50 55 60

Asp Ala Gly Trp Gly Asn Leu Val Tyr Val Val Asn Tyr Pro Lys Asp
65 70 75 80

Asn Lys Arg Lys Met Asp Glu Thr Asp Ala Ser Ser Ala Val Lys Val
85 90 95

Lys Lys Ala Val Gln Lys Thr Ser Asp Leu Ile Val Leu Gly Leu Pro

100

105

110

Trp Lys Thr Thr Glu Gln Asp Leu Lys Glu Tyr Phe Ser Thr Phe Gly
 115 120 125

Glu Val Leu Met Val Gln Val Lys Lys Asp Leu Lys Thr Gly His Ser
 130 135 140

Lys Gly Phe Gly Phe Val Arg Phe Thr Glu Tyr Glu Thr Gln Val Lys
 145 150 155 160

Val Met Ser Gln Arg His Met Ile Asp Gly Arg Trp Cys Asp Cys Lys
 165 170 175

Leu Pro Asn Ser Lys Gln Ser Gln Asp Glu Pro Leu Arg Ser Arg Lys
 180 185 190

Val Phe Val Gly Asx Cys Thr Glu Asp Met Thr Glu Asp Glu Leu Arg
 195 200 205

Glu Phe Phe Ser Gln Tyr Gly Asp Val Met Asp Val Phe Ile Pro Lys
 210 215 220

Pro Phe Arg Ala Phe Ala Phe Val Thr Phe Ala Asp Asp Gln Ile Ala
 225 230 235 240

Gln Ser Leu Cys Gly Glu Asp Glu Ile Ile Lys Gly Ile Ser Val His
 245 250 255

Ile Ser Asn Ala Glu Pro Lys His Asn Ser Asn Arg Gln Leu Glu Arg
 260 265 270

Ser Gly Arg Phe Gly Gly Asn Pro Gly Gly Phe Cys Asn Gln Gly Gly
 275 280 285

Phe Gly Asn Ser Arg Gly Gly Gly Ala Gly Leu Gly Asn Asn Gln Gly
 290 295 300

Ser Asn Met Gly Gly Gly Met Asn Phe Gly Ala Phe Ser Ile Asn Pro
305 310 315 320

Ala Met Met Ala Ala Ala Gln Ala Ala Leu Gln Ser Ser Trp Gly Met
325 330 335

Met Gly Met Leu Ala Ser Gln Gln Asn Gln Ser Gly Pro Ser Gly Asn
340 345 350

Asn Gln Asn Gln Gly Asn Met Gln Arg Glu Pro Asn Gln Ala Phe Gly
355 360 365

Ser Gly Asn Asn Ser Tyr Ser Gly Ser Asn Ser Gly Ala Ala Ile Gly
370 375 380

Trp Gly Ser Ala Ser Asn Ala Gly Ser Gly Ser Gly Phe Asn Gly Gly
385 390 395 400

Phe Gly Ser Ser Met Asp Ser Lys Ser Ser Gly Trp Gly Met
405 410

<210> 11
<211> 11
<212> PRT
<213> Homo sapiens

<400> 11

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

<210> 12
<211> 20
<212> PRT
<213> Homo sapiens

<400> 12

Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg Ser Lys Gly Phe Gly
1 5 10 15

Phe Val Arg Phe
20

<210> 13
<211> 16
<212> PRT
<213> Homo sapiens

<400> 13

Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg Gly Phe Gly Phe Val
1 5 10 15

<210> 14
<211> 18
<212> PRT
<213> Homo sapiens

<400> 14

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

Leu Gly

<210> 15
<211> 20
<212> PRT
<213> Homo sapiens

<400> 15

Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg Ala Gln Phe Pro Gly
1 5 10 15

Ala Cys Gly Leu
20

<210> 16
<211> 20
<212> PRT
<213> Homo sapiens

<400> 16

Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg Ser Lys Gly Phe Gly
1 5 10 15

Phe Val Arg Phe
20

<210> 17

<211> 20

<212> PRT

<213> Homo sapiens

<400> 17

Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg Ser Arg Gly Gly Gly
1 5 10 15

Ala Gly Leu Gly
20

<210> 18

<211> 20

<212> PRT

<213> Homo sapiens

<400> 18

Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg Ala Ala Gln Gly Phe
1 5 10 15

Gly Cys Pro Leu
20

<210> 19

<211> 19

<212> PRT

<213> Homo sapiens

<400> 19

Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg Gly Arg Phe Phe Lys
1 5 10 15

Ser Phe Gly