

SEQUENCE LISTING

<110> Osaka University
Mitsubishi Tanabe Pharma Corporation

<120> AGENT FOR PREVENTING OR TREATING DEMENTIA

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<160> 45

<170> PatentIn version 3.5

<210> 1

<211> 450

<212> PRT

<213> Homo sapiens

<400> 1

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

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Arg Phe Gln Thr Cys Lys Val Gln Gly Ala Trp Pro Leu Ile Asp Asn
 180 185 190
 Asn Tyr Leu Asn Val Gln Val Thr Asn Thr Pro Val Leu Pro Gly Ser
 195 200 205
 Ala Ala Thr Ala Thr Ser Lys Leu Thr Ile Ile Phe Lys Asn Phe Gln
 210 215 220
 Glu Cys Val Asp Gln Lys Val Tyr Gln Ala Glu Met Asp Glu Leu Pro
 225 230 235 240
 Ala Ala Phe Val Asp Gly Ser Lys Asn Gly Gly Asp Lys His Gly Ala
 245 250 255
 Asn Ser Leu Lys Ile Thr Glu Lys Val Ser Gly Gln His Val Glu Ile
 260 265 270
 Gln Ala Lys Tyr Ile Gly Thr Thr Ile Val Val Arg Gln Val Gly Arg
 275 280 285
 Tyr Leu Thr Phe Ala Val Arg Met Pro Glu Glu Val Val Asn Ala Val
 290 295 300
 Glu Asp Trp Asp Ser Gln Gly Leu Tyr Leu Cys Leu Arg Gly Cys Pro
 305 310 315 320
 Leu Asn Gln Gln Ile Asp Phe Gln Ala Phe His Thr Asn Ala Glu Gly
 325 330 335
 Thr Gly Ala Arg Arg Leu Ala Ala Ala Ser Pro Ala Pro Thr Ala Pro
 340 345 350
 Glu Thr Phe Pro Tyr Glu Thr Ala Val Ala Lys Cys Lys Glu Lys Leu
 355 360 365
 Pro Val Glu Asp Leu Tyr Tyr Gln Ala Cys Val Phe Asp Leu Leu Thr
 370 375 380
 Thr Gly Asp Val Asn Phe Thr Leu Ala Ala Tyr Tyr Ala Leu Glu Asp
 385 390 395 400
 Val Lys Met Leu His Ser Asn Lys Asp Lys Leu His Leu Tyr Glu Arg
 405 410 415
 Thr Arg Asp Leu Pro Gly Arg Ala Ala Ala Gly Leu Pro Leu Ala Pro
 420 425 430
 Arg Pro Leu Leu Gly Ala Leu Val Pro Leu Leu Ala Leu Leu Pro Val
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 Phe Cys
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<210> 2

<211> 454

<212> PRT

<213> Mus musculus

<400> 2

Met Gln Pro Pro Arg Glu Arg Leu Val Val Thr Gly Arg Ala Gly Trp
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 Thr Leu Ala Phe Leu Leu Cys Ser Phe Pro Ala Ala Ile Ser Pro Cys
 35 40 45
 Lys Ile Leu Lys Cys Asn Ser Glu Phe Trp Ser Ala Thr Ser Ser Gly
 50 55 60
 Ser His Ala Pro Ala Ser Asp Asp Val Pro Glu Phe Cys Ala Ala Leu
 65 70 75 80
 Arg Thr Tyr Ala Leu Cys Thr Arg Arg Thr Ala Arg Thr Cys Arg Gly
 85 90 95
 Asp Leu Ala Tyr His Ser Ala Val His Gly Ile Glu Asp Leu Met Ser
 100 105 110
 Gln His Asn Cys Ser Lys Asp Gly Pro Thr Ser Gln Pro Arg Val Arg
 115 120 125
 Thr Leu Pro Pro Ala Gly Asp Ser Gln Glu Arg Ser Asp Ser Pro Glu
 130 135 140
 Ile Cys His Tyr Glu Lys Ser Phe His Lys His Ser Ala Ala Pro Asn
 145 150 155 160
 Tyr Thr His Cys Gly Leu Phe Gly Asp Pro His Leu Arg Thr Phe Thr
 165 170 175
 Asp His Phe Gln Thr Cys Lys Val Gln Gly Ala Trp Pro Leu Ile Asp
 180 185 190
 Asn Asn Tyr Leu Asn Val Gln Val Thr Asn Thr Pro Val Leu Pro Gly
 195 200 205
 Ser Ala Ala Thr Ala Thr Ser Lys Leu Thr Ile Ile Phe Lys Asn Phe
 210 215 220
 Gln Glu Cys Val Asp Gln Lys Val Tyr Gln Ala Glu Met Asp Glu Leu
 225 230 235 240
 Pro Ser Ala Phe Ala Asp Gly Ser Lys Asn Gly Gly Asp Lys His Gly
 245 250 255
 Ala Asn Ser Leu Lys Ile Thr Glu Lys Val Ser Gly Gln His Val Glu
 260 265 270
 Ile Gln Ala Lys Tyr Ile Gly Thr Thr Ile Val Val Arg Gln Val Gly
 275 280 285
 Arg Tyr Leu Thr Phe Ala Val Arg Met Pro Glu Glu Val Val Asn Ala
 290 295 300
 Val Glu Asp Arg Asp Ser Gln Gly Leu Tyr Leu Cys Leu Arg Gly Cys
 305 310 315 320
 Pro Leu Asn Gln Gln Ile Asp Phe Gln Ala Phe Arg Ala Asn Ala Glu
 325 330 335
 Ser Pro Arg Arg Pro Ala Ala Ala Ser Pro Ser Pro Val Val Pro Glu
 340 345 350
 Thr Phe Pro Tyr Glu Thr Ala Val Ala Lys Cys Lys Glu Lys Leu Pro

355 360 365
 Val Glu Asp Leu Tyr Tyr Gln Ala Cys Val Phe Asp Leu Leu Thr Thr
 370 375 380
 Gly Asp Val Asn Phe Thr Leu Ala Ala Tyr Tyr Ala Leu Glu Asp Gly
 385 390 395 400
 Lys Met Leu His Ser Asn Lys Asp Lys Leu His Leu Phe Glu Arg Thr
 405 410 415
 Arg Glu Leu Pro Gly Ala Val Ala Ala Ala Ala Ala Ala Thr Thr
 420 425 430
 Phe Pro Leu Ala Pro Gln Ile Leu Leu Gly Thr Ile Pro Leu Leu Val
 435 440 445
 Leu Leu Pro Val Leu Trp
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<210> 3
 <211> 449
 <212> PRT
 <213> Rattus norvegicus

<400> 3

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

180 185 190
 Asn Asn Tyr Leu Asn Val Gln Val Thr Asn Thr Pro Val Leu Pro Gly
 195 200 205
 Ser Ala Ala Thr Ala Thr Ser Lys Leu Thr Ile Ile Phe Lys Asn Phe
 210 215 220
 Gln Glu Cys Val Asp Gln Lys Val Tyr Gln Ala Glu Met Asp Glu Leu
 225 230 235 240
 Pro Ser Ala Phe Ala Asp Gly Ser Lys Asn Gly Gly Asp Lys His Gly
 245 250 255
 Ala Asn Ser Leu Lys Ile Thr Glu Lys Val Ser Gly Gln His Val Glu
 260 265 270
 Ile Gln Ala Lys Tyr Ile Gly Thr Thr Ile Val Val Arg Gln Val Gly
 275 280 285
 Arg Tyr Leu Thr Phe Ala Val Arg Met Pro Glu Glu Val Val Asn Ala
 290 295 300
 Val Glu Asp Arg Asp Ser Gln Gly Leu Tyr Leu Cys Leu Arg Gly Cys
 305 310 315 320
 Pro Leu Asn Gln Gln Ile Asp Phe Gln Ala Phe Arg Ala Asn Ala Glu
 325 330 335
 Ser Pro Arg Arg Pro Ala Ala Ala Ser Pro Ser Pro Val Val Pro Glu
 340 345 350
 Thr Phe Pro Tyr Glu Thr Ala Val Ala Lys Cys Lys Glu Lys Leu Pro
 355 360 365
 Val Glu Asp Leu Tyr Tyr Gln Ala Cys Val Phe Asp Leu Leu Thr Thr
 370 375 380
 Gly Asp Val Asn Phe Thr Leu Ala Ala Tyr Tyr Ala Leu Glu Asp Gly
 385 390 395 400
 Lys Met Leu His Ser Asn Lys Asp Lys Leu His Leu Phe Glu Arg Thr
 405 410 415
 Arg Glu Leu Pro Gly Ala Val Ala Ala Ala Ala Phe Pro Leu Ala Pro
 420 425 430
 Glu Met Leu Pro Gly Thr Val Thr Leu Leu Val Leu Leu Pro Leu Phe
 435 440 445
 Trp

<210> 4
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 <212> DNA
 <213> Homo sapiens

<400> 4

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<210> 5
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<212> PRT
<213> Mus musculus

<400> 5

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1 5 10

<210> 6
<211> 7
<212> PRT
<213> Mus musculus

<400> 6

Tyr Thr Ser Arg Leu His Ser
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<210> 7
<211> 7
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<400> 7

Gln Gln Leu Asn Thr Leu Pro
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<210> 8
<211> 5
<212> PRT
<213> Mus musculus

<400> 8

Asp Ala Trp Met Asp
1 5

<210> 9

<211> 19
<212> PRT
<213> Mus musculus

<400> 9

Glu Ile Arg Ser Lys Ala Asn Asn His Ala Thr Tyr Tyr Ala Glu Ser
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Val Lys Gly

<210> 10
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<400> 10

Arg Asp Gly Ala Tyr
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<210> 11
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Arg Ser Ser Gln Ser Leu Val His Ser Asn Gly Asn Thr Tyr Leu His
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<210> 12
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<213> Mus musculus

<400> 12

Lys Val Ser Asn Arg Phe Ser
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<210> 13
<211> 7
<212> PRT
<213> Mus musculus

<400> 13

Ser Gln Ser Thr His Val Pro
1 5

<210> 14
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<213> Mus musculus

<400> 14

Thr Ser Tyr Tyr Trp Asn
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<210> 15
<211> 16
<212> PRT
<213> Mus musculus

<400> 15

Tyr Ile Ser Tyr Asp Gly Thr Asn Asn Tyr Asn Pro Ser Leu Lys Asn
1 5 10 15

<210> 16
<211> 23
<212> PRT
<213> Homo sapiens

<400> 16

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Gly Ser His Ala Pro Ala Ser
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<210> 17

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 17

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<210> 18

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 18

Glu Val Ser Asn Arg Phe Ser
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<210> 19

<211> 9

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic
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<400> 19

Phe Gln Ala Thr His Asp Pro Leu Thr
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<210> 20
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
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<400> 20

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<210> 21
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
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Gly

<210> 22
<211> 6
<212> PRT
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<220>

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<400> 22

Gly Thr Thr Pro Asp Tyr
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<210> 23

<211> 11

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic
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<400> 23

Gln Ala Ser Gln Asp Ile Asp Asn Tyr Leu Ala
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<210> 24

<211> 7

<212> PRT

<213> Artificial Sequence

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<210> 25

<211> 9

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic
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Leu Gln Gly Tyr Ile Pro Pro Arg Thr
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<210> 26

<211> 5

<212> PRT

<213> Artificial Sequence

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Ser Tyr Val Met His
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<210> 27

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 27

Tyr Ile Ile Pro Tyr Asn Asp Asn Thr Lys Tyr Asn Glu Lys Phe Lys
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Gly

<210> 28

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 28

Ala Arg Arg Asn Glu Tyr Tyr Gly Ser Ser Phe Phe Asp Tyr
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<210> 29

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
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Thr Gly Thr Ser Ser Ser Val Gly Asp Ser Ile Tyr Val Ser
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<210> 30

<211> 7

<212> PRT

<213> Artificial Sequence

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Asp Val Thr Lys Arg Pro Ser
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<210> 31

<211> 9

<212> PRT

<213> Artificial Sequence

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Cys Ser Tyr Ala Gly Thr Asp Thr Leu
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<210> 32

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 32

Ser His Gly Ile Ser
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<210> 33

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

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Gly

<210> 34
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<212> PRT
<213> Artificial Sequence

<220>
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<210> 35
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
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peptide

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Tyr Ser Tyr Ala Gly Thr Asp Thr Leu
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<210> 36
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<212> PRT
<213> Homo sapiens

<400> 36

Glu Glu Val Val Asn Ala Val Glu Asp Trp Asp Ser Gln Gly
1 5 10

<210> 37
<211> 14
<212> PRT

<213> Homo sapiens

<400> 37

Asn Gln Gln Ile Asp Phe Gln Ala Phe His Thr Asn Ala Glu
1 5 10

<210> 38

<211> 11

<212> PRT

<213> Homo sapiens

<400> 38

Pro Thr Ala Pro Glu Thr Phe Pro Tyr Glu Thr
1 5 10

<210> 39

<211> 11

<212> PRT

<213> Homo sapiens

<400> 39

Lys Leu Pro Val Glu Asp Leu Tyr Tyr Gln Ala
1 5 10

<210> 40

<211> 9

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic
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<400> 40

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<210> 41

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 41

His Ser Tyr Ala Gly Thr Asp Thr Leu
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<210> 42

<211> 9

<212> PRT

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<400> 42

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<210> 43

<211> 9

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic
peptide

<400> 43

Val Ser Tyr Ala Gly Thr Asp Thr Leu
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<210> 44

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 44

Ile Ser Tyr Ala Gly Thr Asp Thr Leu
1 5

<210> 45

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 45

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