

FP1726 Sequence Listing.TXT
SEQUENCE LISTING

<110> DAIICHI SANKYO COMPANY, LIMITED
<120> Peptides for Treating Age-related Macular Degeneration
<130> FP1726
<150> JP2016-249020
<151> 2016-12-22
<160> 56
<170> PatentIn version 3.5
<210> 1
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<212> PRT
<213> Homo sapiens

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1 5 10 15

Gln Tyr Arg Leu Pro Gly Cys Pro Arg His Phe Asn Pro Val Cys Gly
20 25 30

Ser Asp Met Ser Thr Tyr Ala Asn Glu Cys Thr Leu Cys Met Lys Ile
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Arg Glu Gly Gly His Asn Ile Lys Ile Ile Arg Asn Gly Pro Cys
50 55 60

<210> 2
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Lys Ser Glu Gly Met Ala Cys Tyr Ala Tyr Tyr Glu Pro Val Cys Gly
Page 1

20

25

30

Ser Asp Met Ser Thr Tyr Ala Asn Glu Cys Thr Leu Cys Met Lys Ile
 35 40 45

Arg Glu Gly Gly His Asn Ile Lys Ile Ile Arg Asn Gly Pro Cys Gly
 50 55 60

Gly
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 20 25 30

Ser Asp Met Ser Thr Tyr Ala Asn Glu Cys Thr Leu Cys Met Lys Ile
 35 40 45

Arg Glu Gly Gly His Asn Ile Lys Ile Ile Arg Asn Gly Pro Cys Gly
 50 55 60

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

Ser Asp Met Ser Thr Tyr Ala Asn Glu Cys Thr Leu Cys Met Lys Ile
 35 40 45

Arg Glu Gly Gly His Asn Ile Lys Ile Ile Arg Asn Gly Pro Cys Gly
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FP1726 Sequence Listing.TXT

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Asp His Ala Gly Met Ala Cys Val Ala Leu Tyr Glu Pro Val Cys Gly
20 25 30

Ser Asp Met Ser Thr Tyr Glu Asn Glu Cys Val Leu Cys Met Lys Ile
35 40 45

Arg Glu Gly Gly His Asn Ile Lys Ile Ile Arg Asn Gly Pro Cys Gly
50 55 60

Gly
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gaatgtgttc tgtgcatgaa aattcgtgaa ggtggccata atattaaaat tattcgcaat	180
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<400> 11

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1 5 10 15

Asp Phe Asp Gly Met Ala Cys Tyr Ala Phe Tyr Glu Pro Val Cys Gly
20 25 30

Ser Asp Met Ser Thr Tyr Met Asn Glu Cys Ala Leu Cys Met Lys Ile
35 40 45

Arg Glu Gly Gly His Asn Ile Lys Ile Ile Arg Asn Gly Pro Cys Gly
50 55 60

Gly

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 1 5 10 15

Gln His Glu Gly Met Ala Cys Tyr Ala Leu Tyr Glu Pro Val Cys Gly
 20 25 30

Ser Asp Met Ser Thr Tyr Val Asn Glu Cys Ala Leu Cys Met Lys Ile
 35 40 45

Arg Glu Gly Gly His Asn Ile Lys Ile Ile Arg Asn Gly Pro Cys Gly
 50 55 60

Gly
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<210> 15
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Asp His Ala Gly Met Ala Cys Val Ala Leu Tyr Glu Pro Val Cys Gly
 20 25 30

Ser Asp Met Ser Thr Tyr Ala Asn Glu Cys Thr Leu Cys Met Lys Ile
 35 40 45

Arg Glu Gly Gly His Asn Ile Lys Ile Ile Arg Asn Gly Pro Cys Gly
 50 55 60

Gly
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Asp Phe Asp Gly Met Ala Cys Tyr Ala Phe Tyr Glu Pro Val Cys Gly
 20 25 30

Ser Asp Met Ser Thr Tyr Ala Asn Glu Cys Thr Leu Cys Met Lys Ile
 Page 6

35

40

45

Arg Glu Gly Gly His Asn Ile Lys Ile Ile Arg Asn Gly Pro Cys Gly
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Gly
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Gln His Glu Gly Met Ala Cys Tyr Ala Leu Tyr Glu Pro Val Cys Gly
 20 25 30

Ser Asp Met Ser Thr Tyr Ala Asn Glu Cys Thr Leu Cys Met Lys Ile
 35 40 45

Arg Glu Gly Gly His Asn Ile Lys Ile Ile Arg Asn Gly Pro Cys Gly
 50 55 60

Gly
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FP1726 Sequence Listing.TXT

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Asp His Ala Gly Met Ala Cys Val Ala Phe Tyr Glu Pro Val Cys Gly
20 25 30

Ser Asp Met Ser Thr Tyr Ala Asn Glu Cys Thr Leu Cys Met Lys Ile
35 40 45

Arg Glu Gly Gly His Asn Ile Lys Ile Ile Arg Asn Gly Pro Cys Gly
50 55 60

Gly
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FP1726 Sequence Listing.TXT

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Asp His Ala Gly Met Ala Cys Val Ala Leu Tyr Glu Pro Val Cys Gly
      20              25              30

Ser Asp Met Ser Thr Tyr Glu Asn Glu Cys Val Leu Cys Met Lys Ile
      35              40              45

Arg Glu Gly Gly His Asn Ile Lys Ile Ile Arg Asn Gly Pro Cys Gly
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Gly
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Asp His Ala Gly Met Ala Cys Val Ala Leu Tyr Glu Pro Val Cys Gly
      20              25              30

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```

Ser Asp Met Ser Thr Tyr Glu Asn Glu Cys Val Leu Cys Met Lys Ile
      35              40              45

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Arg Glu Gly Gly His Asn Ile Lys Ile Ile Arg Asn Gly Pro Cys Gly
      50              55              60

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Gly
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Asp His Ala Gly Met Ala Cys Val Ala Leu Tyr Glu Pro Val Cys Gly
      20              25              30

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Ser Asp Met Ser Thr Tyr Glu Asn Glu Cys Val Leu Cys Met Lys Ile

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35

40

45

Arg Glu Gly Gly His Asn Ile Lys Ile Ile Arg Asn Gly Pro Cys Gly
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Asp His Ala Gly Met Ala Cys Val Ala Leu Tyr Glu Pro Val Cys Gly
 20 25 30

Ser Asp Met Ser Thr Tyr Glu Asn Glu Cys Val Leu Cys Met Lys Ile
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Arg Glu Gly Gly His Asn Ile Lys Ile Ile Arg Asn Gly Pro Cys Gly
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Gly
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 20 25 30

Cys Gly Ser Asp Met Ser Thr Tyr Glu Asn Glu Cys Val Leu Cys Met
 35 40 45

Lys Ile Arg Glu Gly Gly His Asn Ile Lys Ile Ile Arg Asn Gly Pro
 50 55 60

Cys Gly Gly

FP1726 Sequence Listing.TXT

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Gly Pro Gln Phe Gly Leu Phe Ser Lys Tyr Arg Thr Pro Asn Cys Ala
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Asp Phe Asp Gly Met Ala Cys Tyr Ala Phe Tyr Glu Pro Val Cys Gly
 20 25 30

Ser Asp Met Ser Thr Tyr Ala Asn Glu Cys Thr Leu Cys Met Lys Ile
 35 40 45

Arg Glu Gly Gly His Asn Ile Lys Ile Ile Arg Asn Gly Pro Cys Gly
 50 55 60

Gly
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Gln His Glu Gly Met Ala Cys Tyr Ala Leu Tyr Glu Pro Val Cys Gly
 20 25 30

Ser Asp Met Ser Thr Tyr Ala Asn Glu Cys Thr Leu Cys Met Lys Ile
 35 40 45

Arg Glu Gly Gly His Asn Ile Lys Ile Ile Arg Asn Gly Pro Cys Gly
 50 55 60

Gly
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FP1726 Sequence Listing.TXT

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Xaa Xaa Xaa Gly Xaa Ala Cys Xaa Ala Xaa Xaa Glu Pro Val Cys Gly
20 25 30

Ser Asp Met Ser Thr Tyr Xaa Asn Glu Cys Xaa Leu Cys Met Lys Ile
35 40 45

Arg Glu Gly Gly His Asn Ile Lys Ile Ile Arg Asn Gly Pro Cys
50 55 60

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FP1726 Sequence Listing.TXT

<223> synthesized peptide

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Gly Ser Gly Met Lys Glu Thr Ala Ala Ala Lys Phe Glu Arg Gln His
1 5 10 15

Met Asp Ser Pro Asp Leu Gly Thr Asp Asp Asp Asp Lys Ala Met Ala
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Asp Ile Gly Ser Ala Asn Ser
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<212> PRT

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Gly Ala Ser Ala Ala Ala
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<210> 33

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FP1726 Sequence Listing.TXT

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aaaagaattc gccaccatgc agattcctag agccg
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FP1726 Sequence Listing.TXT

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<210> 43
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FP1726 Sequence Listing.TXT

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

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FP1726 Sequence Listing.TXT

Gly Ile Val Ser Thr Thr Gln Arg Gly Gly Lys Glu Leu Gly Leu Arg
275 280 285

Asn Ser Asp Met Asp Tyr Ile Gln Thr Asp Ala Ile Ile Asn Tyr Gly
290 295 300

Asn Ser Gly Gly Pro Leu Val Asn Leu Asp Gly Glu Val Ile Gly Ile
305 310 315 320

Asn Thr Leu Lys Val Thr Ala Gly Ile Ser Phe Ala Ile Pro Ser Asp
325 330 335

Lys Ile Lys Lys Phe Leu Thr Glu Ser His Asp Arg Gln Ala Lys Gly
340 345 350

Lys Ala Ile Thr Lys Lys Lys Tyr Ile Gly Ile Arg Met Met Ser Leu
355 360 365

Thr Ser Ser Lys Ala Lys Glu Leu Lys Asp Arg His Arg Asp Phe Pro
370 375 380

Asp Val Ile Ser Gly Ala Tyr Ile Ile Glu Val Ile Pro Asp Thr Pro
385 390 395 400

Ala Glu Ala Gly Gly Leu Lys Glu Asn Asp Val Ile Ile Ser Ile Asn
405 410 415

Gly Gln Ser Val Val Ser Ala Asn Asp Val Ser Asp Val Ile Lys Arg
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<223> N epsilon-(2,4-dinitrophenyl)-lysine

FP1726 Sequence Listing.TXT

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Xaa Arg Arg Val Ser Tyr Ser Phe Lys Xaa
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