

SEQUENCE LISTING

<110> Neurotune AG

<120> A method for the production of hybridoma cell lines producing
monoclonal antibodies capable to specifically binding to a human
C44-fragment of agrin.

<130> 05478eppc

<150> EP11000898.4

<151> 2011-02-04

<160> 13

<170> PatentIn version 3.5

<210> 1

<211> 421

<212> PRT

<213> Artificial Sequence

<220>

<223> Neurotrypsin resistant agrin fragment C44 y4z8

<400> 1

Leu Ala Asp Phe Asn Gly Phe Ser His Leu Glu Leu Arg Gly Leu His

1 5 10 15

Thr Phe Ala Arg Asp Leu Gly Glu Lys Met Ala Leu Glu Val Val Phe

20 25 30

Leu Ala Arg Gly Pro Ser Gly Leu Leu Leu Tyr Asn Gly Gln Lys Thr

35 40 45

Asp Gly Lys Gly Asp Phe Val Ser Leu Ala Leu Arg Asp Arg Arg Leu

50 55 60

Glu Phe Arg Tyr Asp Leu Gly Lys Gly Ala Ala Val Ile Arg Ser Arg

65 70 75 80

Glu Pro Val Thr Leu Gly Ala Trp Thr Arg Val Ser Leu Glu Arg Asn

85 90 95

Gly Arg Lys Gly Ala Leu Arg Val Gly Asp Gly Pro Arg Val Leu Gly
 100 105 110
 Glu Ser Pro Lys Ser Arg Lys Val Pro His Thr Val Leu Asn Leu Lys
 115 120 125
 Glu Pro Leu Tyr Val Gly Gly Ala Pro Asp Phe Ser Lys Leu Ala Arg
 130 135 140
 Ala Ala Ala Val Ser Ser Gly Phe Asp Gly Ala Ile Gln Leu Val Ser
 145 150 155 160
 Leu Gly Gly Arg Gln Leu Leu Thr Pro Glu His Val Leu Arg Gln Val
 165 170 175
 Asp Val Thr Ser Phe Ala Gly His Pro Cys Thr Arg Ala Ser Gly His
 180 185 190
 Pro Cys Leu Asn Gly Ala Ser Cys Val Pro Arg Glu Ala Ala Tyr Val
 195 200 205
 Cys Leu Cys Pro Gly Gly Phe Ser Gly Pro His Cys Glu Lys Gly Leu
 210 215 220
 Val Glu Ala Ser Ala Gly Asp Val Asp Thr Leu Ala Phe Asp Gly Arg
 225 230 235 240
 Thr Phe Val Glu Tyr Leu Asn Ala Val Thr Glu Ser Glu Leu Ala Asn
 245 250 255
 Glu Ile Pro Val Glu Lys Ala Leu Gln Ser Asn His Phe Glu Leu Ser
 260 265 270
 Leu Arg Thr Glu Ala Thr Gln Gly Leu Val Leu Trp Ser Gly Lys Ala
 275 280 285
 Thr Glu Arg Ala Asp Tyr Val Ala Leu Ala Ile Val Asp Gly His Leu
 290 295 300
 Gln Leu Ser Tyr Asn Leu Gly Ser Gln Pro Val Val Leu Arg Ser Thr
 305 310 315 320
 Val Pro Val Asn Thr Asn Arg Trp Leu Arg Val Val Ala His Arg Glu
 325 330 335

Gln Arg Glu Gly Ser Leu Gln Val Gly Asn Glu Ala Pro Val Thr Gly

340

345

350

Ser Ser Pro Leu Gly Ala Thr Gln Leu Asp Thr Asp Gly Ala Leu Trp

355

360

365

Leu Gly Gly Leu Pro Glu Leu Pro Val Gly Pro Ala Leu Pro Lys Ala

370

375

380

Tyr Gly Thr Gly Phe Val Gly Cys Leu Arg Asp Val Val Val Gly Arg

385

390

395

400

His Pro Leu His Leu Leu Glu Asp Ala Val Thr Lys Pro Glu Leu Arg

405

410

415

Pro Cys Pro Thr Pro

420

<210> 2

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Insertion at the y-site of agrin (y4)

<400> 2

Lys Ser Arg Lys

1

<210> 3

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Insertion at the z-site of agrin (z8)

<400> 3

Glu Leu Ala Asn Glu Ile Pro Val

1 5

<210> 4

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Insertion at the y-site of agrin (y17)

<400> 4

Val Leu Ser Ala Ser His Pro Leu Thr Val Ser Gly Ala Ser Thr Pro

1 5 10 15

Arg

<210> 5

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Insertion at the y-site of agrin (y21)

<400> 5

Lys Ser Arg Lys Val Leu Ser Ala Ser His Pro Leu Thr Val Ser Gly

1 5 10 15

Ala Ser Thr Pro Arg

20

<210> 6

<211> 11

<212> PRT

<13> Artificial Sequence

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<223> Insertion at the z-site of agrin (z11)

<400> 6

Pro Glu Thr Leu Asp Ser Gly Ala Leu His Ser

1 5 10

<210> 7

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Insertion at the z-site of agrin (z19)

<400> 7

Glu Leu Ala Asn Glu Ile Pro Val Pro Glu Thr Leu Asp Ser Gly Ala

1 5 10 15

Leu His Ser

<210> 8

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Epitope sequence

<400> 8

Thr Phe Val Glu Tyr

1 5

<210> 9

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Epitope Sequence

<400> 9

Phe Val Glu Tyr Leu

1 5

<210> 10

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Epitope Sequence

<400> 10

Thr Phe Val Glu

1

<210> 11

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Epitope Sequence

<400> 11

Trp Leu Gly Gly Leu Pro Glu Leu Pro

1 5

<210> 12

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Epitope Sequence

<400> 12

Leu Pro Glu Leu Pro

1 5

<210> 13

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Amino acid sequence containing a His8 tag and a prescission
cleavage site

<400> 13

Ala Arg Val Asn His His His His His His His His Leu Glu Val Leu

1 5 10 15

Phe Gln Gly Pro

20