

DE2008-027.txt
SEQUENCE LISTING

<110> Sanofi-Aventis
 <120> Highly bridged peptides from Actinomadura namibiensis
 <130> DE2008/027
 <160> 19
 <170> PatentIn version 3.3
 <210> 1
 <211> 20
 <212> PRT
 <213> Artificial
 <220>
 <223> Ser1 bridged with Ser4 via ch2
 Ser4 bridged with Ser1 via ch2
 Ser4 bridged with Cys8 via S(O)m wherein m is 0, 1 or 2
 Ser4 bridged with Ser4 via S(O)m wherein m is 0, 1 or 2
 Cys9 optionally bridged with Cys20 via S-S
 Ser10 bridged with Ser13 via CH2
 Ser13 bridged with Ser10 via CH2
 Ser13 bridged with Cys19 via S(O)n wherein n is 0, 1 or 2
 Cys19 bridged with Ser13 via S(O)n wherein n is 0, 1 or 2
 Cys20 optionally bridged with Cys9 via S-S

<400> 1

Ser Asn Ala Ser Val Trp Glu Cys Cys Ser Thr Gly Ser Trp Val Pro
 1 5 10 15

Phe Thr Cys Cys
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<210> 2
 <211> 18
 <212> PRT
 <213> Artificial

<220>
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 Ala4 bridged with Ala1 via CH2
 Ala4 bridged with Ala8 via S(O)m wherein m is 0, 1 or 2
 Ala8 bridged with Ala4 via S(O)m wherein m is 0, 1 or 2
 Cys9 bridged with Cys18 via S-S
 Ala10 bridged with Ala13 via CH2
 Ala13 bridged with Ala10 via CH2
 ala13 bridged with Ala17 via S(O)n wherein n is 0, 1 or 2
 Ala19 bridged with Ala13 via S(O)n wherein n is 0, 1 or 2
 Cys18 optionally bridged with Cys9 via S-S

<400> 2

Ala Asp Trp Ala Leu Trp Glu Ala Cys Ala Thr Gly Ala Leu Phe Ala
 1 5 10 15

Ala Cys

<210> 3
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<212> PRT
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<223> Ser1 bridged with Ser4 via CH2
Ser4 bridged with Ser1 via CH2
Ser4 bridged with Cys8 via S(O)m wherein m is 0, 1 or 2
Cys8 bridged with Ser4 via S(O)m wherein m is 0, 1 or 2
Ser10 bridged with Ser13 via CH2
Ser13 bridged with Ser10 via CH2
Ser13 bridged with Ser17 via S(O)n wherein n is 0, 1 or 2
Ser19 bridged with Ser13 via S(O)n wherein n is 0, 1 or 2

<400> 3

Ser Asp Trp Ser Leu Trp Glu Cys Cys Ser Thr Gly Ser Leu Phe Ala
1 5 10 15

Cys Cys

<210> 4
<211> 34
<212> DNA
<213> Artificial

<220>
<223> Forward Primer for Labyrinthopeptin A2

<220>
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<222> (27)..(27)
<223> n is a, c, g, or t

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<223> n is a, c, g, or t

<400> 4
caggaaacag ctatgaccga ytggsnytn tggg

34

<210> 5
<211> 35
<212> DNA
<213> Artificial

<220>
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<223> n is a, c, g, or t

<400> 5
tgtaaaacga cggccagtrc angangcraa narrc 35

<210> 6
<211> 18
<212> DNA
<213> Actinomadura namibiensis

<400> 6
agtgctgtag cacgggaa 18

<210> 7
<211> 21
<212> DNA
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<220>
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<223> n is a, c, g, or t

<400> 7
rcarcangcr aanarrcttc c 21

<210> 8
<211> 35
<212> DNA
<213> Artificial

<220>
<223> Reversed Primer of Labyrinthopeptin A2

<400> 8
cacggtacct agactagtga ccaagtgcgc cggtc 35

<210> 9
<211> 22
<212> DNA
<213> Actinomadura namibiensis

<400> 9
cttcccgtgc tacagcactc cc 22

<210> 10
<211> 20
<212> DNA
<213> Artificial

<220>
<223> Dig-labelled probe

<400> 10

atggacctcg ccacgggctc

20

<210> 11
 <211> 22
 <212> DNA
 <213> Artificial

<220>
 <223> Dig-labelled probe

<400> 11
 cttcccgtgc tacagcactc cc

22

<210> 12
 <211> 159
 <212> DNA
 <213> Artificial

<220>
 <223> orf for Labyrinthopeptin A2

<400> 12
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 ctccagaacc tggacgtcga gcacgcccgc ggcgagaacc gctccgactg gagcctgtgg 120
 gagtgtctgta gcacgggaag cctgttcgcc tgctgtctga 159

<210> 13
 <211> 117
 <212> DNA
 <213> Artificial

<220>
 <223> structural gene of prepro-Labyrinthopeptin A2 followed by
 stop-colon TGA

<400> 13
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 tccgactgga gcctgtggga gtgctgtagc acgggaagcc tgttcgccctg ctgctga 117

<210> 14
 <211> 38
 <212> PRT
 <213> Artificial

<220>
 <223> Prepro-Labyrinthopeptin A2

<400> 14

Met Ala Ser Ile Leu Glu Leu Gln Asn Leu Asp Val Glu His Ala Arg
 1 5 10 15

Gly Glu Asn Arg Ser Asp Trp Ser Leu Trp Glu Cys Cys Ser Thr Gly
 20 25 30

Ser Leu Phe Ala Cys Cys
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<210> 15
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 <212> PRT
 <213> Artificial

<220>
 <223> Pro-Labyrinthopeptin A2

<400> 15

Ser Asp Trp Ser Leu Trp Glu Cys Cys Ser Thr Gly Ser Leu Phe Ala
 1 5 10 15

Cys Cys

<210> 16
 <211> 135
 <212> DNA
 <213> Artificial

<220>
 <223> orf for Labyrinthopeptin A1

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 tcggccgccg acagcaacgc cagcgtctgg gagtgctgca gcacgggcag ctgggttccc 120
 ttcacctgct gctga 135

<210> 17
 <211> 123
 <212> DNA
 <213> Artificial

<220>
 <223> structural gene of prepro-Labyrinthopeptin A1 followed by
 stop-colon TGA

<400> 17

atggcatcca tccttgagct ccaggacctg gaggtcgagc gcgccagctc ggccgccgac 60
 agcaacgccg gcgtctggga gtgctgcagc acgggcagct gggttccctt cacctgctgc 120
 tga 123

<210> 18
 <211> 40
 <212> PRT
 <213> Artificial

<220>
 <223> Prepro-Labyrinthopeptin A1

<400> 18

Met Ala Ser Ile Leu Glu Leu Gln Asp Leu Glu Val Glu Arg Ala Ser
 1 5 10 15

Ser Ala Ala Asp Ser Asn Ala Ser Val Trp Glu Cys Cys Ser Thr Gly
 20 25 30

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Ser Trp Val Pro Phe Thr Cys Cys
35 40

<210> 19
<211> 20
<212> PRT
<213> Artificial

<220>
<223> Pro-Labyrinthopeptin A1

<400> 19

Ser Asn Ala Ser Val Trp Glu Cys Cys Ser Thr Gly Ser Trp Val Pro
1 5 10 15

Phe Thr Cys Cys
20