

eolf-seql
SEQUENCE LISTING

<110> Micreos Human Health B.V.

<120> A novel endolysin polypeptide

<130> P6057634PCT

<150> EP15185337.1

<151> 2015-09-15

<160> 26

<170> PatentIn version 3.5

<210> 1

<211> 506

<212> PRT

<213> Artificial Sequence

<220>

<223> Chimeric polypeptide

<400> 1

Met Ala Ala Thr His Glu His Ser Ala Gln Trp Leu Asn Asn Tyr Lys
1 5 10 15

Lys Gly Tyr Gly Tyr Gly Pro Tyr Pro Leu Gly Ile Asn Gly Gly Met
20 25 30

His Tyr Gly Val Asp Phe Phe Met Asn Ile Gly Thr Pro Val Lys Ala
35 40 45

Ile Ser Ser Gly Lys Ile Val Glu Ala Gly Trp Ser Asn Tyr Gly Gly
50 55 60

Gly Asn Gln Ile Gly Leu Ile Glu Asn Asp Gly Val His Arg Gln Trp
65 70 75 80

Tyr Met His Leu Ser Lys Tyr Asn Val Lys Val Gly Asp Tyr Val Lys
85 90 95

eolf-seql

Ala Gly Gln Ile Ile Gly Trp Ser Gly Ser Thr Gly Tyr Ser Thr Ala
100 105 110

Pro His Leu His Phe Gln Arg Met Val Asn Ser Phe Ser Asn Ser Thr
115 120 125

Ala Gln Asp Pro Met Pro Phe Leu Lys Ser Ala Gly Tyr Gly Lys Ala
130 135 140

Gly Gly Thr Val Thr Pro Thr Pro Asn Thr Gly Glu Leu Leu Arg Pro
145 150 155 160

Lys Asp Ala Lys Lys Asp Glu Lys Ser Gln Val Cys Ser Gly Leu Ala
165 170 175

Met Glu Lys Tyr Asp Ile Thr Asn Leu Asn Ala Lys Gln Asp Lys Ser
180 185 190

Lys Asn Gly Ser Val Lys Glu Leu Lys His Ile Tyr Ser Asn His Ile
195 200 205

Lys Gly Asn Lys Ile Thr Ala Pro Lys Pro Ser Ile Gln Gly Val Val
210 215 220

Ile His Asn Asp Tyr Gly Ser Met Thr Pro Ser Gln Tyr Leu Pro Trp
225 230 235 240

Leu Tyr Ala Arg Glu Asn Asn Gly Thr His Val Asn Gly Trp Ala Ser
245 250 255

Val Tyr Ala Asn Arg Asn Glu Val Leu Trp Tyr His Pro Thr Asp Tyr
260 265 270

Val Glu Trp His Cys Gly Asn Gln Trp Ala Asn Ala Asn Leu Ile Gly
275 280 285

eolf-seql

Phe Glu Val Cys Glu Ser Tyr Pro Gly Arg Ile Ser Asp Lys Leu Phe
290 295 300

Leu Glu Asn Glu Glu Ala Thr Leu Lys Val Ala Ala Asp Val Met Lys
305 310 315 320

Ser Tyr Gly Leu Pro Val Asn Arg Asn Thr Val Arg Leu His Asn Glu
325 330 335

Phe Phe Gly Thr Ser Cys Pro His Arg Ser Trp Asp Leu His Val Gly
340 345 350

Lys Gly Glu Pro Tyr Thr Thr Thr Asn Ile Asn Lys Met Lys Asp Tyr
355 360 365

Phe Ile Lys Arg Ile Lys His Tyr Tyr Asp Gly Gly Lys Leu Glu Val
370 375 380

Ser Lys Ala Ala Thr Ile Lys Gln Ser Asp Val Lys Gln Glu Val Lys
385 390 395 400

Lys Gln Glu Ala Lys Gln Ile Val Lys Ala Thr Asp Trp Lys Gln Asn
405 410 415

Lys Asp Gly Ile Trp Tyr Lys Ala Glu His Ala Ser Phe Thr Val Thr
420 425 430

Ala Pro Glu Gly Ile Ile Thr Arg Tyr Lys Gly Pro Trp Thr Gly His
435 440 445

Pro Gln Ala Gly Val Leu Gln Lys Gly Gln Thr Ile Lys Tyr Asp Glu
450 455 460

Val Gln Lys Phe Asp Gly His Val Trp Val Ser Trp Glu Thr Phe Glu
465 470 475 480

eolf-seql

Gly Glu Thr Val Tyr Met Pro Val Arg Thr Trp Asp Ala Lys Thr Gly
 485 490 495

Lys Val Gly Lys Leu Trp Gly Glu Ile Lys
 500 505

<210> 2
 <211> 462
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Chimeric polypeptide

<400> 2

Met Ala Ala Thr His Glu His Ser Ala Gln Trp Leu Asn Asn Tyr Lys
 1 5 10 15

Lys Gly Tyr Gly Tyr Gly Pro Tyr Pro Leu Gly Ile Asn Gly Gly Met
 20 25 30

His Tyr Gly Val Asp Phe Phe Met Asn Ile Gly Thr Pro Val Lys Ala
 35 40 45

Ile Ser Ser Gly Lys Ile Val Glu Ala Gly Trp Ser Asn Tyr Gly Gly
 50 55 60

Gly Asn Gln Ile Gly Leu Ile Glu Asn Asp Gly Val His Arg Gln Trp
 65 70 75 80

Tyr Met His Leu Ser Lys Tyr Asn Val Lys Val Gly Asp Tyr Val Lys
 85 90 95

Ala Gly Gln Ile Ile Gly Trp Ser Gly Ser Thr Gly Tyr Ser Thr Ala
 100 105 110

Pro His Leu His Phe Gln Arg Met Val Asn Ser Phe Ser Asn Ser Thr

eolf-seql

115

120

125

Ala Gln Asp Pro Met Pro Phe Leu Lys Ser Ala Gly Tyr Gly Lys Ala
130 135 140

Gly Gly Thr Val Thr Pro Thr Pro Asn Thr Gly Leu Lys His Ile Tyr
145 150 155 160

Ser Asn His Ile Lys Gly Asn Lys Ile Thr Ala Pro Lys Pro Ser Ile
165 170 175

Gln Gly Val Val Ile His Asn Asp Tyr Gly Ser Met Thr Pro Ser Gln
180 185 190

Tyr Leu Pro Trp Leu Tyr Ala Arg Glu Asn Asn Gly Thr His Val Asn
195 200 205

Gly Trp Ala Ser Val Tyr Ala Asn Arg Asn Glu Val Leu Trp Tyr His
210 215 220

Pro Thr Asp Tyr Val Glu Trp His Cys Gly Asn Gln Trp Ala Asn Ala
225 230 235 240

Asn Leu Ile Gly Phe Glu Val Cys Glu Ser Tyr Pro Gly Arg Ile Ser
245 250 255

Asp Lys Leu Phe Leu Glu Asn Glu Glu Ala Thr Leu Lys Val Ala Ala
260 265 270

Asp Val Met Lys Ser Tyr Gly Leu Pro Val Asn Arg Asn Thr Val Arg
275 280 285

Leu His Asn Glu Phe Phe Gly Thr Ser Cys Pro His Arg Ser Trp Asp
290 295 300

Leu His Val Gly Lys Gly Glu Pro Tyr Thr Thr Thr Asn Ile Asn Lys

eolf-seql																		
305						310						315						320
Met	Lys	Asp	Tyr	Phe	Ile	Lys	Arg	Ile	Lys	His	Tyr	Tyr	Asp	Gly	Gly			
				325					330					335				
Lys	Leu	Glu	Val	Ser	Lys	Ala	Ala	Thr	Ile	Lys	Gln	Ser	Asp	Val	Lys			
			340					345					350					
Gln	Glu	Val	Lys	Lys	Gln	Glu	Ala	Lys	Gln	Ile	Val	Lys	Ala	Thr	Asp			
		355					360					365						
Trp	Lys	Gln	Asn	Lys	Asp	Gly	Ile	Trp	Tyr	Lys	Ala	Glu	His	Ala	Ser			
	370					375					380							
Phe	Thr	Val	Thr	Ala	Pro	Glu	Gly	Ile	Ile	Thr	Arg	Tyr	Lys	Gly	Pro			
385					390					395					400			
Trp	Thr	Gly	His	Pro	Gln	Ala	Gly	Val	Leu	Gln	Lys	Gly	Gln	Thr	Ile			
				405					410					415				
Lys	Tyr	Asp	Glu	Val	Gln	Lys	Phe	Asp	Gly	His	Val	Trp	Val	Ser	Trp			
			420					425					430					
Glu	Thr	Phe	Glu	Gly	Glu	Thr	Val	Tyr	Met	Pro	Val	Arg	Thr	Trp	Asp			
		435					440					445						
Ala	Lys	Thr	Gly	Lys	Val	Gly	Lys	Leu	Trp	Gly	Glu	Ile	Lys					
	450					455					460							

<210> 3
 <211> 6
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide

<400> 3

eolf-seql

His Glu His Ser Ala Gln
1 5

<210> 4
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Peptide

<400> 4

Tyr Gly Pro Tyr Pro Leu Gly
1 5

<210> 5
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Peptide

<400> 5

Thr Pro Val Lys Ala Ile
1 5

<210> 6
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Peptide

<400> 6

Ser Gly Lys Ile Val Glu Ala
1 5

<210> 7

eolf-seql

<211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide

<400> 7

Tyr Met His Leu Ser Lys Tyr Asn Val Lys Val Gly Asp Tyr Val Lys
 1 5 10 15

Ala Gly Gln Ile
 20

<210> 8
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide

<400> 8

Thr Ala Pro His Leu His Phe Gln Arg
 1 5

<210> 9
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide

<400> 9

Met Pro Phe Leu Lys Ser Ala
 1 5

<210> 10
 <211> 7
 <212> PRT

<213> Artificial Sequence

<220>

<223> Peptide

<400> 10

Ser Gln Val Cys Ser Gly Leu
1 5

<210> 11

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Peptide

<400> 11

Val Lys Glu Leu Lys His Ile Tyr Ser Asn His
1 5 10

<210> 12

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Peptide

<400> 12

Ala Pro Lys Pro Ser Ile Gln Gly Val Val Ile His Asn
1 5 10

<210> 13

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Peptide

<400> 13

eolf-seql

Pro Ser Gln Tyr Leu Pro Trp Leu Tyr
1 5

<210> 14
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Peptide

<400> 14

Asn Gly Trp Ala Ser Val Tyr Ala
1 5

<210> 15
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Peptide

<400> 15

Val Leu Trp Tyr His Pro Thr Asp Tyr Val Glu Trp His
1 5 10

<210> 16
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Peptide

<400> 16

Ile Gly Phe Glu Val Cys Glu Ser Tyr
1 5

<210> 17

eolf-seql

<211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide

<400> 17

Thr	Leu	Lys	Val	Ala	Ala	Asp	Val	Met	Lys	Ser	Tyr	Gly	Leu	Pro
1				5				10					15	

<210> 18
 <211> 6
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide

<400> 18

Val	Arg	Leu	His	Asn	Glu
1				5	

<210> 19
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide

<400> 19

Gly	Thr	Ser	Cys	Pro	His	Arg	Ser	Trp	Asp	Leu	His	Val	Gly	Lys	Gly
1				5				10					15		

<210> 20
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide

eolf-seql

<400> 20

Phe Ile Lys Arg Ile Lys His Tyr
1 5

<210> 21

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Peptide

<400> 21

Lys Leu Glu Val Ser Lys Ala Ala Thr Ile
1 5 10

<210> 22

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Peptide

<400> 22

Gln Ser Asp Val Lys Gln Glu Val
1 5

<210> 23

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Peptide

<400> 23

Lys Gln Ile Val Lys Ala
1 5

eolf-seql

<210> 24
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Peptide

<400> 24

Lys Ala Glu His Ala Ser Phe Thr Val Thr Ala Pro Glu Gly
1 5 10

<210> 25
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Peptide

<400> 25

Gln Ala Gly Val Leu Gln Lys Gly
1 5

<210> 26
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Peptide

<400> 26

Tyr Asp Glu Val Gln Lys Phe Asp Gly His Val Trp Val Ser Trp
1 5 10 15