

49089K.ST25.txt
SEQUENCE LISTING

<110> PAION Deutschland GmbH
Nesheim, Michael E.
Foley, Jonathan
Petersen, Karl-Uwe

<120> Treatment of coagulopathy with hyperfibrinolysis

<130> 49089 K

<160> 3

<170> PatentIn version 3.3

<210> 1
<211> 557
<212> PRT
<213> Homo sapiens

<220>
<221> Protein
<222> (1)...(557)
<223> Native human soluble thrombomodulin

<400> 1

Ala Pro Ala Glu Pro Gln Pro Gly Gly Ser Gln Cys Val Glu His Asp
1 5 10 15

Cys Phe Ala Leu Tyr Pro Gly Pro Ala Thr Phe Leu Asn Ala Ser Gln
20 25 30

Ile Cys Asp Gly Leu Arg Gly His Leu Met Thr Val Arg Ser Ser Val
35 40 45

Ala Ala Asp Val Ile Ser Leu Leu Leu Asn Gly Asp Gly Gly Val Gly
50 55 60

Arg Arg Arg Leu Trp Ile Gly Leu Gln Leu Pro Pro Gly Cys Gly Asp
65 70 75 80

Pro Lys Arg Leu Gly Pro Leu Arg Gly Phe Gln Trp Val Thr Gly Asp
85 90 95

Asn Asn Thr Ser Tyr Ser Arg Trp Ala Arg Leu Asp Leu Asn Gly Ala
100 105 110

Pro Leu Cys Gly Pro Leu Cys Val Ala Val Ser Ala Ala Glu Ala Thr
115 120 125

Val Pro Ser Glu Pro Ile Trp Glu Glu Gln Gln Cys Glu Val Lys Ala
130 135 140

Asp Gly Phe Leu Cys Glu Phe His Phe Pro Ala Thr Cys Arg Pro Leu
145 150 155 160

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Ala Val Glu Pro Gly Ala Ala Ala Ala Val Ser Ile Thr Tyr Gly
165 170 175

Thr Pro Phe Ala Ala Arg Gly Ala Asp Phe Gln Ala Leu Pro Val Gly
180 185 190

Ser Ser Ala Ala Val Ala Pro Leu Gly Leu Gln Leu Met Cys Thr Ala
195 200 205

Pro Pro Gly Ala Val Gln Gly His Trp Ala Arg Glu Ala Pro Gly Ala
210 215 220

Trp Asp Cys Ser Val Glu Asn Gly Gly Cys Glu His Ala Cys Asn Ala
225 230 235 240

Ile Pro Gly Ala Pro Arg Cys Gln Cys Pro Ala Gly Ala Ala Leu Gln
245 250 255

Ala Asp Gly Arg Ser Cys Thr Ala Ser Ala Thr Gln Ser Cys Asn Asp
260 265 270

Leu Cys Glu His Phe Cys Val Pro Asn Pro Asp Gln Pro Gly Ser Tyr
275 280 285

Ser Cys Met Cys Glu Thr Gly Tyr Arg Leu Ala Ala Asp Gln His Arg
290 295 300

Cys Glu Asp Val Asp Asp Cys Ile Leu Glu Pro Ser Pro Cys Pro Gln
305 310 315 320

Arg Cys Val Asn Thr Gln Gly Gly Phe Glu Cys His Cys Tyr Pro Asn
325 330 335

Tyr Asp Leu Val Asp Gly Glu Cys Val Glu Pro Val Asp Pro Cys Phe
340 345 350

Arg Ala Asn Cys Glu Tyr Gln Cys Gln Pro Leu Asn Gln Thr Ser Tyr
355 360 365

Leu Cys Val Cys Ala Glu Gly Phe Ala Pro Ile Pro His Glu Pro His
370 375 380

Arg Cys Gln Met Phe Cys Asn Gln Thr Ala Cys Pro Ala Asp Cys Asp
385 390 395 400

Pro Asn Thr Gln Ala Ser Cys Glu Cys Pro Glu Gly Tyr Ile Leu Asp
405 410 415

Asp Gly Phe Ile Cys Thr Asp Ile Asp Glu Cys Glu Asn Gly Gly Phe
420 425 430

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Cys Ser Gly Val Cys His Asn Leu Pro Gly Thr Phe Glu Cys Ile Cys
435 440 445

Gly Pro Asp Ser Ala Leu Ala Arg His Ile Gly Thr Asp Cys Asp Ser
450 455 460

Gly Lys Val Asp Gly Gly Asp Ser Gly Ser Gly Glu Pro Pro Pro Ser
465 470 475 480

Pro Thr Pro Gly Ser Thr Leu Thr Pro Pro Ala Val Gly Leu Val His
485 490 495

Ser Gly Leu Leu Ile Gly Ile Ser Ile Ala Ser Leu Cys Leu Val Val
500 505 510

Ala Leu Leu Ala Leu Leu Cys His Leu Arg Lys Lys Gln Gly Ala Ala
515 520 525

Arg Ala Lys Met Glu Tyr Lys Cys Ala Ala Pro Ser Lys Glu Val Val
530 535 540

Leu Gln His Val Arg Thr Glu Arg Thr Pro Gln Arg Leu
545 550 555

<210> 2
<211> 487
<212> PRT
<213> Homo sapiens

<220>
<221> Protein
<222> (1)..(487)
<223> Solulin (human soluble thrombomodulin analogue)

<400> 2

Glu Pro Gln Pro Gly Gly Ser Gln Cys Val Glu His Asp Cys Phe Ala
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20 25 30

Gly Leu Arg Gly His Leu Met Thr Val Arg Ser Ser Val Ala Ala Asp
35 40 45

Val Ile Ser Leu Leu Leu Asn Gly Asp Gly Gly Val Gly Arg Arg Arg
50 55 60

Leu Trp Ile Gly Leu Gln Leu Pro Pro Gly Cys Gly Asp Pro Lys Arg
65 70 75 80

Leu Gly Pro Leu Arg Gly Phe Gln Trp Val Thr Gly Asp Asn Asn Thr
85 90 95

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Ser Tyr Ser Arg Trp Ala Arg Leu Asp Leu Asn Gly Ala Pro Leu Cys
100 105 110

Gly Pro Leu Cys Val Ala Val Ser Ala Ala Glu Ala Thr Val Pro Ser
115 120 125

Glu Pro Ile Trp Glu Glu Gln Gln Cys Glu Val Lys Ala Asp Gly Phe
130 135 140

Leu Cys Glu Phe His Phe Pro Ala Thr Cys Arg Pro Leu Ala Val Glu
145 150 155 160

Pro Gly Ala Ala Ala Ala Val Ser Ile Thr Tyr Gly Thr Pro Phe
165 170 175

Ala Ala Arg Gly Ala Asp Phe Gln Ala Leu Pro Val Gly Ser Ser Ala
180 185 190

Ala Val Ala Pro Leu Gly Leu Gln Leu Met Cys Thr Ala Pro Pro Gly
195 200 205

Ala Val Gln Gly His Trp Ala Arg Glu Ala Pro Gly Ala Trp Asp Cys
210 215 220

Ser Val Glu Asn Gly Gly Cys Glu His Ala Cys Asn Ala Ile Pro Gly
225 230 235 240

Ala Pro Arg Cys Gln Cys Pro Ala Gly Ala Ala Leu Gln Ala Asp Gly
245 250 255

Arg Ser Cys Thr Ala Ser Ala Thr Gln Ser Cys Asn Asp Leu Cys Glu
260 265 270

His Phe Cys Val Pro Asn Pro Asp Gln Pro Gly Ser Tyr Ser Cys Met
275 280 285

Cys Glu Thr Gly Tyr Arg Leu Ala Ala Asp Gln His Arg Cys Glu Asp
290 295 300

Val Asp Asp Cys Ile Leu Glu Pro Ser Pro Cys Pro Gln Arg Cys Val
305 310 315 320

Asn Thr Gln Gly Gly Phe Glu Cys His Cys Tyr Pro Asn Tyr Asp Leu
325 330 335

Val Asp Gly Glu Cys Val Glu Pro Val Asp Pro Cys Phe Arg Ala Asn
340 345 350

Cys Glu Tyr Gln Cys Gln Pro Leu Asn Gln Thr Ser Tyr Leu Cys Val
355 360 365

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Cys Ala Glu Gly Phe Ala Pro Ile Pro His Glu Pro His Arg Cys Gln
370 375 380

Leu Phe Cys Asn Gln Thr Ala Cys Pro Ala Asp Cys Asp Pro Asn Thr
385 390 395 400

Gln Ala Ser Cys Glu Cys Pro Glu Gly Tyr Ile Leu Asp Asp Gly Phe
405 410 415

Ile Cys Thr Asp Ile Asp Glu Cys Glu Asn Gly Gly Phe Cys Ser Gly
420 425 430

Val Cys His Asn Leu Pro Gly Thr Phe Glu Cys Ile Cys Gly Pro Asp
435 440 445

Ser Ala Leu Ala Gly Gln Ile Gly Thr Asp Cys Asp Ser Gly Lys Val
450 455 460

Asp Gly Gly Asp Ser Gly Ala Gly Glu Pro Pro Pro Ser Pro Thr Pro
465 470 475 480

Gly Ser Thr Leu Thr Pro Pro
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<210> 3
<211> 462
<212> PRT
<213> Homo sapiens

<220>
<221> Protein
<222> (1)..(462)
<223> Human soluble thrombomodulin analogue (SEQ ID NO:1 of w093/25675)

<400> 3

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

Ile Cys Asp Gly Leu Arg Gly His Leu Met Thr Val Arg Ser Ser Val
35 40 45

Ala Ala Asp Val Ile Ser Leu Leu Leu Asn Gly Asp Gly Gly Val Gly
50 55 60

Arg Arg Arg Leu Trp Ile Gly Leu Gln Leu Pro Pro Gly Cys Gly Asp
65 70 75 80

Pro Lys Arg Leu Gly Pro Leu Arg Gly Phe Gln Trp Val Thr Gly Asp
85 90 95

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Asn Asn Thr Ser Tyr Ser Arg Trp Ala Arg Leu Asp Leu Asn Gly Ala
100 105 110

Pro Leu Cys Gly Pro Leu Cys Val Ala Val Ser Ala Ala Glu Ala Thr
115 120 125

Val Pro Ser Glu Pro Ile Trp Glu Glu Gln Gln Cys Glu Val Lys Ala
130 135 140

Asp Gly Phe Leu Cys Glu Phe His Pro Ala Thr Cys Arg Pro Leu
145 150 155 160

Ala Val Glu Pro Gly Ala Ala Ala Ala Val Ser Ile Thr Tyr Gly
165 170 175

Thr Pro Phe Ala Ala Arg Gly Ala Asp Phe Gln Ala Leu Pro Val Gly
180 185 190

Ser Ser Ala Ala Val Ala Pro Leu Gly Leu Gln Leu Met Cys Thr Ala
195 200 205

Pro Pro Gly Ala Val Gln Gly His Trp Ala Arg Glu Ala Pro Gly Ala
210 215 220

Trp Asp Cys Ser Val Glu Asn Gly Gly Cys Glu His Ala Cys Asn Ala
225 230 235 240

Ile Pro Gly Ala Pro Arg Cys Gln Cys Pro Ala Gly Ala Ala Leu Gln
245 250 255

Ala Asp Gly Arg Ser Cys Thr Ala Ser Ala Thr Gln Ser Cys Asn Asp
260 265 270

Leu Cys Glu His Phe Cys Val Pro Asn Pro Asp Gln Pro Gly Ser Tyr
275 280 285

Ser Cys Met Cys Glu Thr Gly Tyr Arg Leu Ala Ala Asp Gln His Arg
290 295 300

Cys Glu Asp Val Asp Asp Cys Ile Leu Glu Pro Ser Pro Cys Pro Gln
305 310 315 320

Arg Cys Val Asn Thr Gln Gly Gly Phe Glu Cys His Cys Tyr Pro Asn
325 330 335

Tyr Asp Leu Val Asp Gly Glu Cys Val Glu Pro Val Asp Pro Cys Phe
340 345 350

Arg Ala Asn Cys Glu Tyr Gln Cys Gln Pro Leu Asn Gln Thr Ser Tyr
355 360 365

49089K.ST25.txt

Leu Cys Val Cys Ala Glu Gly Phe Ala Pro Ile Pro His Glu Pro His
370 375 380

Arg Cys Gln Met Phe Cys Asn Gln Thr Ala Cys Pro Ala Asp Cys Asp
385 390 395 400

Pro Asn Thr Gln Ala Ser Cys Glu Cys Pro Glu Gly Tyr Ile Leu Asp
405 410 415

Asp Gly Phe Ile Cys Thr Asp Ile Asp Glu Cys Glu Asn Gly Gly Phe
420 425 430

Cys Ser Gly Val Cys His Asn Leu Pro Gly Thr Phe Glu Cys Ile Cys
435 440 445

Gly Pro Asp Ser Ala Leu Ala Arg His Ile Gly Thr Asp Cys
450 455 460