

SEQUENCE LISTING

<110> Roche Diagnostics GmbH
F. Hoffmann-La Roche AG

<120> Use of endostatin as a marker of heart failure

<130> 26087 WO

<150> EP09005801.7

<151> 2009-04-27

<160> 1

<170> PatentIn version 3.3

<210> 1

<211> 1519

<212> PRT

<213> Homo sapiens

<400> 1

Met Ala Pro Tyr Pro Cys Gly Cys His Ile Leu Leu Leu Leu Phe Cys
1 5 10 15

Cys Leu Ala Ala Ala Arg Ala Asn Leu Leu Asn Leu Asn Trp Leu Trp
20 25 30

Phe Asn Asn Glu Asp Thr Ser His Ala Ala Thr Thr Ile Pro Glu Pro
35 40 45

Gln Gly Pro Leu Pro Val Gln Pro Thr Ala Asp Thr Thr Thr His Val
50 55 60

Thr Pro Arg Asn Gly Ser Thr Glu Pro Ala Thr Ala Pro Gly Ser Pro
65 70 75 80

Glu Pro Pro Ser Glu Leu Leu Glu Asp Gly Gln Asp Thr Pro Thr Ser
85 90 95

Ala Glu Ser Pro Asp Ala Pro Glu Glu Asn Ile Ala Gly Val Gly Ala
100 105 110

Glu Ile Leu Asn Val Ala Lys Gly Ile Arg Ser Phe Val Gln Leu Trp
115 120 125

Asn Asp Thr Val Pro Thr Glu Ser Leu Ala Arg Ala Glu Thr Leu Val
130 135 140

Leu Glu Thr Pro Val Gly Pro Leu Ala Leu Ala Gly Pro Ser Ser Thr
145 150 155 160

Pro Gln Glu Asn Gly Thr Thr Leu Trp Pro Ser Arg Gly Ile Pro Ser
165 170 175

Ser Pro Gly Ala His Thr Thr Glu Ala Gly Thr Leu Pro Ala Pro Thr
180 185 190

Pro Ser Pro Pro Ser Leu Gly Arg Pro Trp Ala Pro Leu Thr Gly Pro
195 200 205

Ser Val Pro Pro Pro Ser Ser Glu Arg Ile Ser Glu Glu Val Gly Leu
210 215 220

Leu Gln Leu Leu Gly Asp Pro Pro Pro Gln Gln Val Thr Gln Thr Asp
225 230 235 240

Asp Pro Asp Val Gly Leu Ala Tyr Val Phe Gly Pro Asp Ala Asn Ser
245 250 255

Gly Gln Val Ala Arg Tyr His Phe Pro Ser Leu Phe Phe Arg Asp Phe
260 265 270

Ser Leu Leu Phe His Ile Arg Pro Ala Thr Glu Gly Pro Gly Val Leu
275 280 285

Phe Ala Ile Thr Asp Ser Ala Gln Ala Met Val Leu Leu Gly Val Lys
290 295 300

Leu Ser Gly Val Gln Asp Gly His Gln Asp Ile Ser Leu Leu Tyr Thr
305 310 315 320

Glu Pro Gly Ala Gly Gln Thr His Thr Ala Ala Ser Phe Arg Leu Pro
325 330 335

Ala Phe Val Gly Gln Trp Thr His Leu Ala Leu Ser Val Ala Gly Gly
340 345 350

Phe Val Ala Leu Tyr Val Asp Cys Glu Glu Phe Gln Arg Met Pro Leu
355 360 365

Ala Arg Ser Ser Arg Gly Leu Glu Leu Glu Pro Gly Ala Gly Leu Phe
370 375 380

Val Ala Gln Ala Gly Gly Ala Asp Pro Asp Lys Phe Gln Gly Val Ile
385 390 395 400

Ala Glu Leu Lys Val Arg Arg Asp Pro Gln Val Ser Pro Met His Cys
405 410 415

Leu Asp Glu Glu Gly Asp Asp Ser Asp Gly Ala Ser Gly Asp Ser Gly
420 425 430

Ser Gly Leu Gly Asp Ala Arg Glu Leu Leu Arg Glu Glu Thr Gly Ala
435 440 445

Ala Leu Lys Pro Arg Leu Pro Ala Pro Pro Pro Val Thr Thr Pro Pro
450 455 460

Leu Ala Gly Gly Ser Ser Thr Glu Asp Ser Arg Ser Glu Glu Val Glu
465 470 475 480

Glu Gln Thr Thr Val Ala Ser Leu Gly Ala Gln Thr Leu Pro Gly Ser
485 490 495

Asp Ser Val Ser Thr Trp Asp Gly Ser Val Arg Thr Pro Gly Gly Arg
500 505 510

Val Lys Glu Gly Gly Leu Lys Gly Gln Lys Gly Glu Pro Gly Val Pro
515 520 525

Gly Pro Pro Gly Arg Ala Gly Pro Pro Gly Ser Pro Cys Leu Pro Gly
530 535 540

Pro Pro Gly Leu Pro Cys Pro Val Ser Pro Leu Gly Pro Ala Gly Pro
545 550 555 560

Ala Leu Gln Thr Val Pro Gly Pro Gln Gly Pro Pro Gly Pro Pro Gly
565 570 575

Arg Asp Gly Thr Pro Gly Arg Asp Gly Glu Pro Gly Asp Pro Gly Glu
580 585 590

Asp Gly Lys Pro Gly Asp Thr Gly Pro Gln Gly Phe Pro Gly Thr Pro
595 600 605

Gly Asp Val Gly Pro Lys Gly Asp Lys Gly Asp Pro Gly Val Gly Glu
610 615 620

Arg Gly Pro Pro Gly Pro Gln Gly Pro Pro Gly Pro Pro Gly Pro Ser
625 630 635 640

Phe Arg His Asp Lys Leu Thr Phe Ile Asp Met Glu Gly Ser Gly Phe
645 650 655

Gly Gly Asp Leu Glu Ala Leu Arg Gly Pro Arg Gly Phe Pro Gly Pro
660 665 670

Pro Gly Pro Pro Gly Val Pro Gly Leu Pro Gly Glu Pro Gly Arg Phe
675 680 685

Gly Val Asn Ser Ser Asp Val Pro Gly Pro Ala Gly Leu Pro Gly Val
690 695 700

Pro Gly Arg Glu Gly Pro Pro Gly Phe Pro Gly Leu Pro Gly Pro Pro
705 710 715 720

Gly Pro Pro Gly Arg Glu Gly Pro Pro Gly Arg Thr Gly Gln Lys Gly
725 730 735

Ser Leu Gly Glu Ala Gly Ala Pro Gly His Lys Gly Ser Lys Gly Ala
740 745 750

Pro Gly Pro Ala Gly Ala Arg Gly Glu Ser Gly Leu Ala Gly Ala Pro
755 760 765

Gly Pro Ala Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly
770 775 780

Pro Gly Leu Pro Ala Gly Phe Asp Asp Met Glu Gly Ser Gly Gly Pro
785 790 795 800

Phe Trp Ser Thr Ala Arg Ser Ala Asp Gly Pro Gln Gly Pro Pro Gly
805 810 815

Leu Pro Gly Leu Lys Gly Asp Pro Gly Val Pro Gly Leu Pro Gly Ala
820 825 830

Lys Gly Glu Val Gly Ala Asp Gly Val Pro Gly Phe Pro Gly Leu Pro
835 840 845

Gly Arg Glu Gly Ile Ala Gly Pro Gln Gly Pro Lys Gly Asp Arg Gly

850		855		860
Ser Arg Gly Glu Lys Gly Asp Pro Gly Lys Asp Gly Val Gly Gln Pro				
865		870		880
Gly Leu Pro Gly Pro Pro Gly Pro Pro Gly Pro Val Val Tyr Val Ser				
	885		890	895
Glu Gln Asp Gly Ser Val Leu Ser Val Pro Gly Pro Glu Gly Arg Pro				
	900		905	910
Gly Phe Ala Gly Phe Pro Gly Pro Ala Gly Pro Lys Gly Asn Leu Gly				
	915		920	925
Ser Lys Gly Glu Arg Gly Ser Pro Gly Pro Lys Gly Glu Lys Gly Glu				
	930		935	940
Pro Gly Ser Ile Phe Ser Pro Asp Gly Gly Ala Leu Gly Pro Ala Gln				
	945		950	955
Lys Gly Ala Lys Gly Glu Pro Gly Phe Arg Gly Pro Pro Gly Pro Tyr				
	965		970	975
Gly Arg Pro Gly Tyr Lys Gly Glu Ile Gly Phe Pro Gly Arg Pro Gly				
	980		985	990
Arg Pro Gly Met Asn Gly Leu Lys Gly Glu Lys Gly Glu Pro Gly Asp				
	995		1000	1005
Ala Ser Leu Gly Phe Gly Met Arg Gly Met Pro Gly Pro Pro Gly				
	1010		1015	1020
Pro Pro Gly Pro Pro Gly Pro Pro Gly Thr Pro Val Tyr Asp Ser				
	1025		1030	1035
Asn Val Phe Ala Glu Ser Ser Arg Pro Gly Pro Pro Gly Leu Pro				
	1040		1045	1050
Gly Asn Gln Gly Pro Pro Gly Pro Lys Gly Ala Lys Gly Glu Val				
	1055		1060	1065
Gly Pro Pro Gly Pro Pro Gly Gln Phe Pro Phe Asp Phe Leu Gln				
	1070		1075	1080

Leu	Glu	Ala	Glu	Met	Lys	Gly	Glu	Lys	Gly	Asp	Arg	Gly	Asp	Ala
1085						1090					1095			
Gly	Gln	Lys	Gly	Glu	Arg	Gly	Glu	Pro	Gly	Gly	Gly	Gly	Phe	Phe
1100						1105					1110			
Gly	Ser	Ser	Leu	Pro	Gly	Pro	Pro	Gly	Pro	Pro	Gly	Pro	Pro	Gly
1115						1120					1125			
Pro	Arg	Gly	Tyr	Pro	Gly	Ile	Pro	Gly	Pro	Lys	Gly	Glu	Ser	Ile
1130						1135					1140			
Arg	Gly	Gln	Pro	Gly	Pro	Pro	Gly	Pro	Gln	Gly	Pro	Pro	Gly	Ile
1145						1150					1155			
Gly	Tyr	Glu	Gly	Arg	Gln	Gly	Pro	Pro	Gly	Pro	Pro	Gly	Pro	Pro
1160						1165					1170			
Gly	Pro	Pro	Ser	Phe	Pro	Gly	Pro	His	Arg	Gln	Thr	Ile	Ser	Val
1175						1180					1185			
Pro	Gly	Pro	Pro	Gly	Pro	Pro	Gly	Pro	Pro	Gly	Pro	Pro	Gly	Thr
1190						1195					1200			
Met	Gly	Ala	Ser	Ser	Gly	Val	Arg	Leu	Trp	Ala	Thr	Arg	Gln	Ala
1205						1210					1215			
Met	Leu	Gly	Gln	Val	His	Glu	Val	Pro	Glu	Gly	Trp	Leu	Ile	Phe
1220						1225					1230			
Val	Ala	Glu	Gln	Glu	Glu	Leu	Tyr	Val	Arg	Val	Gln	Asn	Gly	Phe
1235						1240					1245			
Arg	Lys	Val	Gln	Leu	Glu	Ala	Arg	Thr	Pro	Leu	Pro	Arg	Gly	Thr
1250						1255					1260			
Asp	Asn	Glu	Val	Ala	Ala	Leu	Gln	Pro	Pro	Val	Val	Gln	Leu	His
1265						1270					1275			
Asp	Ser	Asn	Pro	Tyr	Pro	Arg	Arg	Glu	His	Pro	His	Pro	Thr	Ala
1280						1285					1290			
Arg	Pro	Trp	Arg	Ala	Asp	Asp	Ile	Leu	Ala	Ser	Pro	Pro	Arg	Leu
1295						1300					1305			

Pro Glu Pro Gln Pro Tyr Pro Gly Ala Pro His His Ser Ser Tyr
1310 1315 1320

Val His Leu Arg Pro Ala Arg Pro Thr Ser Pro Pro Ala His Ser
1325 1330 1335

His Arg Asp Phe Gln Pro Val Leu His Leu Val Ala Leu Asn Ser
1340 1345 1350

Pro Leu Ser Gly Gly Met Arg Gly Ile Arg Gly Ala Asp Phe Gln
1355 1360 1365

Cys Phe Gln Gln Ala Arg Ala Val Gly Leu Ala Gly Thr Phe Arg
1370 1375 1380

Ala Phe Leu Ser Ser Arg Leu Gln Asp Leu Tyr Ser Ile Val Arg
1385 1390 1395

Arg Ala Asp Arg Ala Ala Val Pro Ile Val Asn Leu Lys Asp Glu
1400 1405 1410

Leu Leu Phe Pro Ser Trp Glu Ala Leu Phe Ser Gly Ser Glu Gly
1415 1420 1425

Pro Leu Lys Pro Gly Ala Arg Ile Phe Ser Phe Asp Gly Lys Asp
1430 1435 1440

Val Leu Arg His Pro Thr Trp Pro Gln Lys Ser Val Trp His Gly
1445 1450 1455

Ser Asp Pro Asn Gly Arg Arg Leu Thr Glu Ser Tyr Cys Glu Thr
1460 1465 1470

Trp Arg Thr Glu Ala Pro Ser Ala Thr Gly Gln Ala Ser Ser Leu
1475 1480 1485

Leu Gly Gly Arg Leu Leu Gly Gln Ser Ala Ala Ser Cys His His
1490 1495 1500

Ala Tyr Ile Val Leu Cys Ile Glu Asn Ser Phe Met Thr Ala Ser
1505 1510 1515

Lys