

ESAP1601F sequence listing (English)
SEQUENCE LISTING

<110> EISAI R&D MANAGEMENT CO., LTD.
<120> A method for producing an active hepatocyte growth factor (HGF)
<130> ESAP1601F
<150> JP2016-054128
<151> 2016-03-17
<160> 2
<170> PatentIn version 3.5
<210> 1
<211> 697
<212> PRT
<213> Homo sapiens
<400> 1

Gln Arg Lys Arg Arg Asn Thr Ile His Glu Phe Lys Lys Ser Ala Lys
1 5 10 15

Thr Thr Leu Ile Lys Ile Asp Pro Ala Leu Lys Ile Lys Thr Lys Lys
20 25 30

Val Asn Thr Ala Asp Gln Cys Ala Asn Arg Cys Thr Arg Asn Lys Gly
35 40 45

Leu Pro Phe Thr Cys Lys Ala Phe Val Phe Asp Lys Ala Arg Lys Gln
50 55 60

Cys Leu Trp Phe Pro Phe Asn Ser Met Ser Ser Gly Val Lys Lys Glu
65 70 75 80

Phe Gly His Glu Phe Asp Leu Tyr Glu Asn Lys Asp Tyr Ile Arg Asn
85 90 95

Cys Ile Ile Gly Lys Gly Arg Ser Tyr Lys Gly Thr Val Ser Ile Thr
100 105 110

Lys Ser Gly Ile Lys Cys Gln Pro Trp Ser Ser Met Ile Pro His Glu
115 120 125

His Ser Phe Leu Pro Ser Ser Tyr Arg Gly Lys Asp Leu Gln Glu Asn
130 135 140

Tyr Cys Arg Asn Pro Arg Gly Glu Glu Gly Gly Pro Trp Cys Phe Thr
145 150 155 160

Ser Asn Pro Glu Val Arg Tyr Glu Val Cys Asp Ile Pro Gln Cys Ser
165 170 175

Glu Val Glu Cys Met Thr Cys Asn Gly Glu Ser Tyr Arg Gly Leu Met
180 185 190

ESAP1601F sequence listing (English)

Asp His Thr Glu Ser Gly Lys Ile Cys Gln Arg Trp Asp His Gln Thr
195 200 205

Pro His Arg His Lys Phe Leu Pro Glu Arg Tyr Pro Asp Lys Gly Phe
210 215 220

Asp Asp Asn Tyr Cys Arg Asn Pro Asp Gly Gln Pro Arg Pro Trp Cys
225 230 235 240

Tyr Thr Leu Asp Pro His Thr Arg Trp Glu Tyr Cys Ala Ile Lys Thr
245 250 255

Cys Ala Asp Asn Thr Met Asn Asp Thr Asp Val Pro Leu Glu Thr Thr
260 265 270

Glu Cys Ile Gln Gly Gln Gly Glu Gly Tyr Arg Gly Thr Val Asn Thr
275 280 285

Ile Trp Asn Gly Ile Pro Cys Gln Arg Trp Asp Ser Gln Tyr Pro His
290 295 300

Glu His Asp Met Thr Pro Glu Asn Phe Lys Cys Lys Asp Leu Arg Glu
305 310 315 320

Asn Tyr Cys Arg Asn Pro Asp Gly Ser Glu Ser Pro Trp Cys Phe Thr
325 330 335

Thr Asp Pro Asn Ile Arg Val Gly Tyr Cys Ser Gln Ile Pro Asn Cys
340 345 350

Asp Met Ser His Gly Gln Asp Cys Tyr Arg Gly Asn Gly Lys Asn Tyr
355 360 365

Met Gly Asn Leu Ser Gln Thr Arg Ser Gly Leu Thr Cys Ser Met Trp
370 375 380

Asp Lys Asn Met Glu Asp Leu His Arg His Ile Phe Trp Glu Pro Asp
385 390 395 400

Ala Ser Lys Leu Asn Glu Asn Tyr Cys Arg Asn Pro Asp Asp Asp Ala
405 410 415

His Gly Pro Trp Cys Tyr Thr Gly Asn Pro Leu Ile Pro Trp Asp Tyr
420 425 430

Cys Pro Ile Ser Arg Cys Glu Gly Asp Thr Thr Pro Thr Ile Val Asn
435 440 445

Leu Asp His Pro Val Ile Ser Cys Ala Lys Thr Lys Gln Leu Arg Val
450 455 460

ESAP1601F sequence listing (English)

Val Asn Gly Ile Pro Thr Arg Thr Asn Ile Gly Trp Met Val Ser Leu
465 470 475 480

Arg Tyr Arg Asn Lys His Ile Cys Gly Gly Ser Leu Ile Lys Glu Ser
485 490 495

Trp Val Leu Thr Ala Arg Gln Cys Phe Pro Ser Arg Asp Leu Lys Asp
500 505 510

Tyr Glu Ala Trp Leu Gly Ile His Asp Val His Gly Arg Gly Asp Glu
515 520 525

Lys Cys Lys Gln Val Leu Asn Val Ser Gln Leu Val Tyr Gly Pro Glu
530 535 540

Gly Ser Asp Leu Val Leu Met Lys Leu Ala Arg Pro Ala Val Leu Asp
545 550 555 560

Asp Phe Val Ser Thr Ile Asp Leu Pro Asn Tyr Gly Cys Thr Ile Pro
565 570 575

Glu Lys Thr Ser Cys Ser Val Tyr Gly Trp Gly Tyr Thr Gly Leu Ile
580 585 590

Asn Tyr Asp Gly Leu Leu Arg Val Ala His Leu Tyr Ile Met Gly Asn
595 600 605

Glu Lys Cys Ser Gln His His Arg Gly Lys Val Thr Leu Asn Glu Ser
610 615 620

Glu Ile Cys Ala Gly Ala Glu Lys Ile Gly Ser Gly Pro Cys Glu Gly
625 630 635 640

Asp Tyr Gly Gly Pro Leu Val Cys Glu Gln His Lys Met Arg Met Val
645 650 655

Leu Gly Val Ile Val Pro Gly Arg Gly Cys Ala Ile Pro Asn Arg Pro
660 665 670

Gly Ile Phe Val Arg Val Ala Tyr Tyr Ala Lys Trp Ile His Lys Ile
675 680 685

Ile Leu Thr Tyr Lys Val Pro Gln Ser
690 695

<210> 2
<211> 620
<212> PRT
<213> Homo sapiens
<400> 2

ESAP1601F sequence listing (English)

Gln Pro Gly Gly Asn Arg Thr Glu Ser Pro Glu Pro Asn Ala Thr Ala
1 5 10 15

Thr Pro Ala Ile Pro Thr Ile Leu Val Thr Ser Val Thr Ser Glu Thr
20 25 30

Pro Ala Thr Ser Ala Pro Glu Ala Glu Gly Pro Gln Ser Gly Gly Leu
35 40 45

Pro Pro Pro Pro Arg Ala Val Pro Ser Ser Ser Ser Pro Gln Ala Gln
50 55 60

Ala Leu Thr Glu Asp Gly Arg Pro Cys Arg Phe Pro Phe Arg Tyr Gly
65 70 75 80

Gly Arg Met Leu His Ala Cys Thr Ser Glu Gly Ser Ala His Arg Lys
85 90 95

Trp Cys Ala Thr Thr His Asn Tyr Asp Arg Asp Arg Ala Trp Gly Tyr
100 105 110

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

Cys Ala Ser Gly Pro Cys Leu Asn Gly Gly Ser Cys Ser Asn Thr Gln
130 135 140

Asp Pro Gln Ser Tyr His Cys Ser Cys Pro Arg Ala Phe Thr Gly Lys
145 150 155 160

Asp Cys Gly Thr Glu Lys Cys Phe Asp Glu Thr Arg Tyr Glu Tyr Leu
165 170 175

Glu Gly Gly Asp Arg Trp Ala Arg Val Arg Gln Gly His Val Glu Gln
180 185 190

Cys Glu Cys Phe Gly Gly Arg Thr Trp Cys Glu Gly Thr Arg His Thr
195 200 205

Ala Cys Leu Ser Ser Pro Cys Leu Asn Gly Gly Thr Cys His Leu Ile
210 215 220

Val Ala Thr Gly Thr Thr Val Cys Ala Cys Pro Pro Gly Phe Ala Gly
225 230 235 240

Arg Leu Cys Asn Ile Glu Pro Asp Glu Arg Cys Phe Leu Gly Asn Gly
245 250 255

Thr Gly Tyr Arg Gly Val Ala Ser Thr Ser Ala Ser Gly Leu Ser Cys
260 265 270

ESAP1601F sequence listing (English)

Leu Ala Trp Asn Ser Asp Leu Leu Tyr Gln Glu Leu His Val Asp Ser
 275 280 285
 Val Gly Ala Ala Ala Leu Leu Gly Leu Gly Pro His Ala Tyr Cys Arg
 290 295 300
 Asn Pro Asp Asn Asp Glu Arg Pro Trp Cys Tyr Val Val Lys Asp Ser
 305 310 315 320
 Ala Leu Ser Trp Glu Tyr Cys Arg Leu Glu Ala Cys Glu Ser Leu Thr
 325 330 335
 Arg Val Gln Leu Ser Pro Asp Leu Leu Ala Thr Leu Pro Glu Pro Ala
 340 345 350
 Ser Pro Gly Arg Gln Ala Cys Gly Arg Arg His Lys Lys Arg Thr Phe
 355 360 365
 Leu Arg Pro Arg Ile Ile Gly Gly Ser Ser Ser Leu Pro Gly Ser His
 370 375 380
 Pro Trp Leu Ala Ala Ile Tyr Ile Gly Asp Ser Phe Cys Ala Gly Ser
 385 390 395 400
 Leu Val His Thr Cys Trp Val Val Ser Ala Ala His Cys Phe Ser His
 405 410 415
 Ser Pro Pro Arg Asp Ser Val Ser Val Val Leu Gly Gln His Phe Phe
 420 425 430
 Asn Arg Thr Thr Asp Val Thr Gln Thr Phe Gly Ile Glu Lys Tyr Ile
 435 440 445
 Pro Tyr Thr Leu Tyr Ser Val Phe Asn Pro Ser Asp His Asp Leu Val
 450 455 460
 Leu Ile Arg Leu Lys Lys Lys Gly Asp Arg Cys Ala Thr Arg Ser Gln
 465 470 475 480
 Phe Val Gln Pro Ile Cys Leu Pro Glu Pro Gly Ser Thr Phe Pro Ala
 485 490 495
 Gly His Lys Cys Gln Ile Ala Gly Trp Gly His Leu Asp Glu Asn Val
 500 505 510
 Ser Gly Tyr Ser Ser Ser Leu Arg Glu Ala Leu Val Pro Leu Val Ala
 515 520 525
 Asp His Lys Cys Ser Ser Pro Glu Val Tyr Gly Ala Asp Ile Ser Pro
 530 535 540

ESAP1601F sequence listing (English)

Asn Met Leu Cys Ala Gly Tyr Phe Asp Cys Lys Ser Asp Ala Cys Gln
 545 550 555 560

Gly Asp Ser Gly Gly Pro Leu Ala Cys Glu Lys Asn Gly Val Ala Tyr
 565 570 575

Leu Tyr Gly Ile Ile Ser Trp Gly Asp Gly Cys Gly Arg Leu His Lys
 580 585 590

Pro Gly Val Tyr Thr Arg Val Ala Asn Tyr Val Asp Trp Ile Asn Asp
 595 600 605

Arg Ile Arg Pro Pro Arg Arg Leu Val Ala Pro Ser
 610 615 620