

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

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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

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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

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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	

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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

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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				