

@E0115967. sequence listing_ST25. txt
SEQUENCE LISTING

<110> Università degli Studi di Pavia
<120> An antibody drug conjugate based on asparaginase
<130> @E0115967
<160> 6
<170> PatentIn version 3.5
<210> 1
<211> 611
<212> PRT
<213> Artificial Sequence
<220>
<223> Fusion protein
<400> 1

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Pro Gly Leu Val Ala Pro Ser Gln Ser Leu Ser Val Thr Cys Thr Val
20 25 30

Ser Gly Val Ser Leu Pro Asp Tyr Gly Val Ser Trp Ile Arg Gln Pro
35 40 45

Pro Arg Lys Gly Leu Glu Trp Leu Gly Val Ile Trp Gly Ser Glu Thr
50 55 60

Thr Tyr Tyr Asn Ser Ala Leu Lys Ser Arg Leu Thr Ile Ile Lys Asp
65 70 75 80

Asn Ser Lys Ser Gln Val Phe Leu Lys Met Asn Ser Leu Gln Thr Asp
85 90 95

Asp Thr Ala Ile Tyr Tyr Cys Ala Lys His Tyr Tyr Tyr Gly Gly Ser
100 105 110

Tyr Ala Met Asp Tyr Trp Gly Gln Gly Thr Ser Val Thr Val Ser Ser
115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Val
130 135 140

Asp Ile Gln Met Thr Gln Thr Thr Ser Ser Leu Ser Ala Ser Leu Gly
145 150 155 160

Asp Arg Val Thr Ile Ser Cys Arg Ala Ser Gln Asp Ile Ser Lys Tyr
165 170 175

Leu Asn Trp Tyr Gln Gln Lys Pro Asp Gly Thr Val Lys Leu Leu Ile
180 185 190

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Tyr His Thr Ser Arg Leu His Ser Gly Val Pro Ser Arg Phe Ser Gly
 195 200 205
 Ser Gly Ser Gly Thr Asp Tyr Ser Leu Thr Ile Ser Asn Leu Glu Gln
 210 215 220
 Glu Asp Ile Ala Thr Tyr Phe Cys Gln Gln Gly Asn Thr Leu Pro Tyr
 225 230 235 240
 Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Thr Gly Ser Gly Gly Gly
 245 250 255
 Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
 260 265 270
 Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Leu Leu Pro Asn
 275 280 285
 Ile Thr Ile Leu Ala Thr Gly Gly Thr Ile Ala Gly Gly Gly Asp Ser
 290 295 300
 Ala Thr Lys Ser Asn Tyr Thr Val Gly Lys Val Gly Val Glu Asn Leu
 305 310 315 320
 Val Asn Ala Val Pro Gln Leu Lys Asp Ile Ala Asn Val Lys Gly Glu
 325 330 335
 Gln Val Val Asn Ile Gly Ser Gln Asp Met Asn Asp Asn Val Trp Leu
 340 345 350
 Thr Leu Ala Lys Lys Ile Asn Thr Asp Cys Asp Lys Thr Asp Gly Phe
 355 360 365
 Val Ile Thr His Gly Thr Asp Thr Met Glu Glu Thr Ala Tyr Phe Leu
 370 375 380
 Asp Leu Thr Val Lys Cys Asp Lys Pro Val Val Met Val Gly Ala Met
 385 390 395 400
 Arg Pro Ser Thr Ser Met Ser Ala Asp Gly Pro Phe Asn Leu Tyr Asn
 405 410 415
 Ala Val Val Thr Ala Ala Asp Lys Ala Ser Ala Asn Arg Gly Val Leu
 420 425 430
 Val Val Met Asn Asp Thr Val Leu Asp Gly Arg Asp Val Thr Lys Thr
 435 440 445
 Asn Thr Thr Asp Val Ala Thr Phe Lys Ser Val Asn Tyr Gly Pro Leu
 450 455 460

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Gly Tyr Ile His Asn Gly Lys Ile Asp Tyr Gln Arg Thr Pro Ala Arg
465 470 475 480

Lys His Thr Ser Asp Thr Pro Phe Asp Val Ser Lys Leu Asn Glu Leu
485 490 495

Pro Lys Val Gly Ile Val Tyr Asn Tyr Ala Asn Ala Ser Asp Leu Pro
500 505 510

Ala Lys Ala Leu Val Asp Ala Gly Tyr Asp Gly Ile Val Ser Ala Gly
515 520 525

Val Gly Asn Gly Asn Leu Tyr Lys Ser Val Phe Asp Thr Leu Ala Thr
530 535 540

Ala Ala Lys Thr Gly Thr Ala Val Val Arg Ser Ser Arg Val Pro Thr
545 550 555 560

Gly Ala Thr Thr Gln Asp Ala Glu Val Asp Asp Ala Lys Tyr Gly Phe
565 570 575

Val Ala Ser Gly Thr Leu Asn Pro Gln Lys Ala Arg Val Leu Leu Gln
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Leu Ala Leu Thr Gln Thr Lys Asp Pro Gln Gln Ile Gln Gln Ile Phe
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Asn Gln Tyr
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<211> 1842
<212> DNA
<213> Artificial Sequence

<220>
<223> sequence encoding Fusion protein

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tactactgtg ccaaacatta ttactacggg ggtagctatg ctatggacta ctgggggtcaa 360
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ggtggctctg gtggaggcgg ttcaggcggg ggtggctctg gcgggtggtg ctctggtgga	840
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gcttacttcc tcgacctgac ggtgaaatgc gacaaaccgg tggatgatgg cggcgcaatg	1200
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acgctgaacc cgcaaaaagc gcgcgttctg ctgcaactgg ctctgacgca aaccaaagat	1800
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<220>
 <223> Primer scFv fusion_s

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 <211> 34
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer scFv fusion_as

<400> 4	
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<210> 5
<211> 29
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer EcAII fusion_s

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<210> 6
<211> 34
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer EcAII fusion_as

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cctaggttat tattagtact gattgaagat ctgc 34