

SEQUENCE LISTING

<110> HELIX BIOPHARMA CORP.

<120> ANTIBODY-UREASE CONJUGATES FOR THERAPEUTIC PURPOSES

<130> 105013-1610

<140>

<141>

<150> 62/107,210

<151> 2015-01-23

<160> 9

<170> PatentIn version 3.5

<210> 1

<211> 122

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 1

Met	Asp	Val	Gln	Leu	Gln	Ala	Ser	Gly	Gly	Gly	Val	Val	Gln	Pro	Gly
1				5					10					15	

Gly	Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	His	Asp	Pro	Ile	Phe	Asp	Lys
			20					25					30		

Asn	Leu	Met	Gly	Trp	Gly	Arg	Gln	Ala	Pro	Gly	Lys	Gln	Arg	Glu	Tyr
		35					40					45			

Val	Ala	Thr	Ile	Ser	Gly	Ser	Gly	Gly	Thr	Asn	Tyr	Ala	Ser	Ser	Val
		50				55				60					

Glu	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ala	Lys	Lys	Thr	Val	Tyr
65					70					75					80

Leu	Gln	Met	Asn	Asp	Leu	Lys	Pro	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
				85					90					95	

Asn Ser Ala Phe Ala Ile Trp Gly Gln Gly Thr Gln Val Thr Val Ser
100 105 110

Ser Gly Gly Gly Glu Glu Asp Asp Gly Lys
115 120

<210> 2

<211> 840

<212> PRT

<213> Canavalia ensiformis

<400> 2

Met Lys Leu Ser Pro Arg Glu Val Glu Lys Leu Gly Leu His Asn Ala
1 5 10 15

Gly Tyr Leu Ala Gln Lys Arg Leu Ala Arg Gly Val Arg Leu Asn Tyr
20 25 30

Thr Glu Ala Val Ala Leu Ile Ala Ser Gln Ile Met Glu Tyr Ala Arg
35 40 45

Asp Gly Glu Lys Thr Val Ala Gln Leu Met Cys Leu Gly Gln His Leu
50 55 60

Leu Gly Arg Arg Gln Val Leu Pro Ala Val Pro His Leu Leu Asn Ala
65 70 75 80

Val Gln Val Glu Ala Thr Phe Pro Asp Gly Thr Lys Leu Val Thr Val
85 90 95

His Asp Pro Ile Ser Arg Glu Asn Gly Glu Leu Gln Glu Ala Leu Phe
100 105 110

Gly Ser Leu Leu Pro Val Pro Ser Leu Asp Lys Phe Ala Glu Thr Lys
115 120 125

Glu Asp Asn Arg Ile Pro Gly Glu Ile Leu Cys Glu Asp Glu Cys Leu
130 135 140

Thr Leu Asn Ile Gly Arg Lys Ala Val Ile Leu Lys Val Thr Ser Lys
145 150 155 160

Gly Asp Arg Pro Ile Gln Val Gly Ser His Tyr His Phe Ile Glu Val
165 170 175

Asn Pro Tyr Leu Thr Phe Asp Arg Arg Lys Ala Tyr Gly Met Arg Leu
180 185 190

Asn Ile Ala Ala Gly Thr Ala Val Arg Phe Glu Pro Gly Asp Cys Lys
195 200 205

Ser Val Thr Leu Val Ser Ile Glu Gly Asn Lys Val Ile Arg Gly Gly
210 215 220

Asn Ala Ile Ala Asp Gly Pro Val Asn Glu Thr Asn Leu Glu Ala Ala
225 230 235 240

Met His Ala Val Arg Ser Lys Gly Phe Gly His Glu Glu Glu Lys Asp
245 250 255

Ala Ser Glu Gly Phe Thr Lys Glu Asp Pro Asn Cys Pro Phe Asn Thr
260 265 270

Phe Ile His Arg Lys Glu Tyr Ala Asn Lys Tyr Gly Pro Thr Thr Gly
275 280 285

Asp Lys Ile Arg Leu Gly Asp Thr Asn Leu Leu Ala Glu Ile Glu Lys
290 295 300

Asp Tyr Ala Leu Tyr Gly Asp Glu Cys Val Phe Gly Gly Gly Lys Val
305 310 315 320

Ile Arg Asp Gly Met Gly Gln Ser Cys Gly His Pro Pro Ala Ile Ser
325 330 335

Leu Asp Thr Val Ile Thr Asn Ala Val Ile Ile Asp Tyr Thr Gly Ile
340 345 350

Ile Lys Ala Asp Ile Gly Ile Lys Asp Gly Leu Ile Ala Ser Ile Gly
355 360 365

Lys Ala Gly Asn Pro Asp Ile Met Asn Gly Val Phe Ser Asn Met Ile
370 375 380

Ile Gly Ala Asn Thr Glu Val Ile Ala Gly Glu Gly Leu Ile Val Thr
385 390 395 400

Ala Gly Ala Ile Asp Cys His Val His Tyr Ile Cys Pro Gln Leu Val
405 410 415

Tyr Glu Ala Ile Ser Ser Gly Ile Thr Thr Leu Val Gly Gly Gly Thr
420 425 430

Gly Pro Ala Ala Gly Thr Arg Ala Thr Thr Cys Thr Pro Ser Pro Thr
435 440 445

Gln Met Arg Leu Met Leu Gln Ser Thr Asp Asp Leu Pro Leu Asn Phe
450 455 460

Gly Phe Thr Gly Lys Gly Ser Ser Ser Lys Pro Asp Glu Leu His Glu
465 470 475 480

Ile Ile Lys Ala Gly Ala Met Gly Leu Lys Leu His Glu Asp Trp Gly
485 490 495

Ser Thr Pro Ala Ala Ile Asp Asn Cys Leu Thr Ile Ala Glu His His
500 505 510

Asp Ile Gln Ile Asn Ile His Thr Asp Thr Leu Asn Glu Ala Gly Phe
515 520 525

Val Glu His Ser Ile Ala Ala Phe Lys Gly Arg Thr Ile His Thr Tyr
530 535 540

His Ser Glu Gly Ala Gly Gly Gly His Ala Pro Asp Ile Ile Lys Val
545 550 555 560

Cys Gly Ile Lys Asn Val Leu Pro Ser Ser Thr Asn Pro Thr Arg Pro
565 570 575

Leu Thr Ser Asn Thr Ile Asp Glu His Leu Asp Met Leu Met Val Cys
580 585 590

His His Leu Asp Arg Glu Ile Pro Glu Asp Leu Ala Phe Ala His Ser
595 600 605

Arg Ile Arg Lys Lys Thr Ile Ala Ala Glu Asp Val Leu Asn Asp Ile
610 615 620

Gly Ala Ile Ser Ile Ile Ser Ser Asp Ser Gln Ala Met Gly Arg Val
625 630 635 640

Gly Glu Val Ile Ser Arg Thr Trp Gln Thr Ala Asp Lys Met Lys Ala
645 650 655

Gln Thr Gly Pro Leu Lys Cys Asp Ser Ser Asp Asn Asp Asn Phe Arg
660 665 670

Ile Arg Arg Tyr Ile Ala Lys Tyr Thr Ile Asn Pro Ala Ile Ala Asn
675 680 685

Gly Phe Ser Gln Tyr Val Gly Ser Val Glu Val Gly Lys Leu Ala Asp
690 695 700

Leu Val Met Trp Lys Pro Ser Phe Phe Gly Thr Lys Pro Glu Met Val
705 710 715 720

Ile Lys Gly Gly Met Val Ala Trp Ala Asp Ile Gly Asp Pro Asn Ala
725 730 735

Ser Ile Pro Thr Pro Glu Pro Val Lys Met Arg Pro Met Tyr Gly Thr
740 745 750

Leu Gly Lys Ala Gly Gly Ala Leu Ser Ile Ala Phe Val Ser Lys Ala
755 760 765

Ala Leu Asp Gln Arg Val Asn Val Leu Tyr Gly Leu Asn Lys Arg Val
770 775 780

Glu Ala Val Ser Asn Val Arg Lys Leu Thr Lys Leu Asp Met Lys Leu
785 790 795 800

Asn Asp Ala Leu Pro Glu Ile Thr Val Asp Pro Glu Ser Tyr Thr Val
805 810 815

Lys Ala Asp Gly Lys Leu Leu Cys Val Ser Glu Ala Thr Thr Val Pro
820 825 830

Leu Ser Arg Asn Tyr Phe Leu Phe
835 840

<210> 3

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 3

Ile Gln Asn Pro Ala Ser Ala Asn Arg Ser Asp Pro Val Thr Leu Asn
1 5 10 15

Val Leu Tyr Gly Pro Asp Gly Pro Thr Ile Ser Pro Ser Lys Ala Asn
20 25 30

Tyr Arg Pro Gly Glu Asn Leu Asn Leu Ser Cys His Ala Ala Ser Asn
35 40 45

Pro Pro
50

<210> 4
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 4
Glu Ile Gln Asn Pro Ala Ser Ala Asn Arg Ser Asp
1 5 10

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

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 5
aaggcgaaa agtggatggc aacagtcta 29

<210> 6
<211> 29
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 6
aagaagcaac cggacagttc catgtatac 29

<210> 7
<211> 19
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 7

Leu	Ser	Cys	Ala	Ala	His	Asp	Pro	Ile	Phe	Asp	Lys	Asn	Leu	Met	Gly
1				5					10					15	

Trp Gly Cys

<210> 8

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 8

Leu	Ser	Cys	Ala	Ala	His	Asp	Pro	Ile	Phe	Asp	Lys	Asn	Leu	Met	Gly
1				5					10					15	

Trp Gly Arg

<210> 9

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 9

Cys	Asp	Ser	Ser	Asp	Asn	Asp	Asn	Phe	Arg
1				5				10	