

SEQUENCE LISTING

<110> IMMUNOGEN, INC.

<120> PROCESS FOR PREPARING CELL-BINDING AGENT-CYTOTOXIC AGENT CONJUGATES

<130> 121162-03020

<150> 62/081914

<151> 2014-11-19

<160> 11

<170> PatentIn version 3.5

<210> 1

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 1

Gly	Tyr	Met	Phe	Thr	Ser	Tyr	Gly	Ile	Ser
1				5				10	

<210> 2

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 2

Trp	Val	Ser	Thr	Tyr	Asn	Gly	Asp	Thr	Asn	Tyr	Ala	Gln	Lys	Phe	Gln
1				5				10						15	

Gly

<210> 3

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 3

Val Leu Gly Tyr Tyr Asp Ser Ile Asp Gly Tyr Tyr Tyr Gly Met Asp
1 5 10 15

Val

<210> 4

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 4

Gly Gly Asn Asn Ile Gly Asp Lys Ser Val His
1 5 10

<210> 5

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 5

Leu Asp Thr Glu Arg Pro Ser
1 5

<210> 6

<211> 11

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<213> Artificial Sequence

<220>

<223> Synthetic

<400> 6

Gln Val Trp Asp Ser Gly Ser Asp His Val Val
1 5 10

<210> 7

<211> 126

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 7

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Met Phe Thr Ser Tyr
20 25 30

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45

Gly Trp Val Ser Thr Tyr Asn Gly Asp Thr Asn Tyr Ala Gln Lys Phe
50 55 60

Gln Gly Arg Val Thr Val Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr
65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Val Leu Gly Tyr Tyr Asp Ser Ile Asp Gly Tyr Tyr Tyr Gly
100 105 110

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

<210> 8

<211> 109
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 8

Gln Ser Val Leu Thr Gln Pro Pro Ser Leu Ser Val Ala Pro Gly Lys
1 5 10 15

Thr Ala Thr Phe Thr Cys Gly Gly Asn Asn Ile Gly Asp Lys Ser Val
20 25 30

His Trp Tyr Arg Gln Lys Pro Gly Gln Ala Pro Val Leu Val Met Tyr
35 40 45

Leu Asp Thr Glu Arg Pro Ser Gly Ile Pro Glu Arg Met Ser Gly Ser
50 55 60

Asn Phe Gly Asn Thr Ala Thr Leu Thr Ile Thr Arg Val Glu Ala Gly
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Val Trp Asp Ser Gly Ser Asp His
85 90 95

Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly
100 105

<210> 9
<211> 456
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 9

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Met Phe Thr Ser Tyr
20 25 30

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45

Gly Trp Val Ser Thr Tyr Asn Gly Asp Thr Asn Tyr Ala Gln Lys Phe
50 55 60

Gln Gly Arg Val Thr Val Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr
65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Val Leu Gly Tyr Tyr Asp Ser Ile Asp Gly Tyr Tyr Tyr Gly
100 105 110

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

Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr
130 135 140

Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro
145 150 155 160

Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val
165 170 175

His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser
180 185 190

Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile
195 200 205

Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Arg Val

210

215

220

Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala
 225 230 235 240

Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro
 245 250 255

Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val
 260 265 270

Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val
 275 280 285

Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln
 290 295 300

Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln
 305 310 315 320

Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala
 325 330 335

Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro
 340 345 350

Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr
 355 360 365

Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser
 370 375 380

Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr
 385 390 395 400

Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr
 405 410 415

Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe
420 425 430

Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys
435 440 445

Ser Leu Ser Leu Ser Pro Gly Lys
450 455

<210> 10
<211> 214
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 10

Gln Ser Val Leu Thr Gln Pro Pro Ser Leu Ser Val Ala Pro Gly Lys
1 5 10 15

Thr Ala Thr Phe Thr Cys Gly Gly Asn Asn Ile Gly Asp Lys Ser Val
20 25 30

His Trp Tyr Arg Gln Lys Pro Gly Gln Ala Pro Val Leu Val Met Tyr
35 40 45

Leu Asp Thr Glu Arg Pro Ser Gly Ile Pro Glu Arg Met Ser Gly Ser
50 55 60

Asn Phe Gly Asn Thr Ala Thr Leu Thr Ile Thr Arg Val Glu Ala Gly
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Val Trp Asp Ser Gly Ser Asp His
85 90 95

Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gln Pro Lys
100 105 110

Ala Ala Pro Ser Val Thr Leu Phe Pro Pro Ser Ser Glu Glu Leu Gln
115 120 125

Ala Asn Lys Ala Thr Leu Val Cys Leu Ile Ser Asp Phe Tyr Pro Gly
130 135 140

Ala Val Thr Val Ala Trp Lys Ala Asp Ser Ser Pro Val Lys Ala Gly
145 150 155 160

Val Glu Thr Thr Thr Pro Ser Lys Gln Ser Asn Asn Lys Tyr Ala Ala
165 170 175

Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys Ser His Arg Ser
180 185 190

Tyr Ser Cys Gln Val Thr His Glu Gly Ser Thr Val Glu Lys Thr Val
195 200 205

Ala Pro Ala Glu Cys Ser
210

<210> 11
<211> 795
<212> PRT
<213> Homo sapiens

<400> 11

Met Gly Ala Pro Ala Cys Ala Leu Ala Leu Cys Val Ala Val Ala Ile
1 5 10 15

Val Ala Gly Ala Ser Ser Glu Ser Leu Gly Thr Glu Gln Arg Val Val
20 25 30

Gly Arg Ala Ala Glu Val Pro Gly Pro Glu Pro Gly Gln Glu Leu Val
35 40 45

Phe Gly Ser Gly Asp Ala Val Glu Leu Ser Cys Pro Pro Pro Gly Gly
50 55 60

Gly Pro Met Gly Pro Thr Val Trp Val Lys Asp Gly Thr Gly Leu Val
65 70 75 80

Pro Ser Glu Arg Val Leu Val Gly Pro Gln Arg Leu Val Leu Asn Ala
85 90 95

Ser His Glu Asp Ser Gly Ala Tyr Ser Cys Arg Gln Arg Leu Thr Arg
100 105 110

Val Leu Cys His Phe Ser Val Arg Val Thr Asp Ala Pro Ser Ser Gly
115 120 125

Asp Asp Glu Asp Gly Glu Asp Glu Ala Glu Asp Thr Gly Val Asp Thr
130 135 140

Gly Ala Pro Tyr Trp Thr Arg Pro Glu Arg Met Asp Lys Lys Leu Leu
145 150 155 160

Ala Val Pro Ala Ala Asn Thr Val Arg Phe Arg Cys Pro Ala Ala Gly
165 170 175

Asn Pro Thr Pro Ser Ile Ser Trp Leu Lys Asn Gly Arg Glu Phe Arg
180 185 190

Gly Glu His Arg Ile Gly Gly Ile Lys Leu Arg His Gln Gln Trp Ser
195 200 205

Leu Val Met Glu Ser Val Val Pro Ser Asp Arg Gly Asn Tyr Thr Cys
210 215 220

Val Val Glu Asn Lys Phe Gly Ser Ile Arg Gln Thr Tyr Thr Leu Asp
225 230 235 240

Val Leu Glu Arg Ser Pro His Arg Pro Ile Leu Gln Ala Gly Leu Pro
245 250 255

Ala Asn Gln Thr Ala Val Leu Gly Ser Asp Val Glu Phe His Cys Lys
260 265 270

Val Tyr Ser Asp Ala Pro His Ile Gln Trp Leu Lys His Val Glu Val
275 280 285

Asn Gly Ser Lys Val Gly Pro Asp Gly Thr Pro Tyr Val Thr Val Leu
290 295 300

Lys Thr Ala Gly Ala Asn Thr Thr Asp Lys Glu Leu Glu Val Leu Ser
305 310 315 320

Leu His Asn Val Thr Phe Glu Asp Ala Gly Glu Tyr Thr Cys Leu Ala
325 330 335

Gly Asn Ser Ile Gly Phe Ser His His Ser Ala Trp Leu Val Val Leu
340 345 350

Pro Ala Glu Glu Glu Leu Val Glu Ala Asp Glu Ala Gly Ser Val Tyr
355 360 365

Ala Gly Ile Leu Ser Tyr Gly Val Gly Phe Phe Leu Phe Ile Leu Val
370 375 380

Val Ala Ala Val Thr Leu Cys Arg Leu Arg Ser Pro Pro Lys Lys Gly
385 390 395 400

Leu Gly Ser Pro Thr Val His Lys Ile Ser Arg Phe Pro Leu Lys Arg
405 410 415

Gln Val Ser Leu Glu Ser Asn Ala Ser Asn Ser Ser Asn Thr Pro Leu
420 425 430

Val Arg Ile Ala Arg Leu Ser Ser Gly Glu Gly Pro Thr Leu Ala Asn
435 440 445

Val Ser Glu Leu Glu Leu Pro Ala Asp Pro Lys Trp Glu Leu Ser Arg
450 455 460

Ala Arg Leu Thr Leu Gly Lys Pro Leu Gly Glu Gly Cys Phe Gly Gln
465 470 475 480

Val Val Met Ala Glu Ala Ile Gly Ile Asp Lys Asp Arg Ala Ala Lys
485 490 495

Pro Val Thr Val Ala Val Lys Met Leu Lys Asp Asp Ala Thr Asp Lys
500 505 510

Asp Leu Ser Asp Leu Val Ser Glu Met Glu Met Met Lys Met Ile Gly
515 520 525

Lys His Lys Asn Ile Ile Asn Leu Leu Gly Ala Cys Thr Gln Gly Gly
530 535 540

Pro Leu Tyr Val Leu Val Glu Tyr Ala Ala Lys Gly Asn Leu Arg Glu
545 550 555 560

Phe Leu Arg Ala Arg Arg Pro Pro Gly Leu Asp Tyr Ser Phe Asp Thr
565 570 575

Cys Lys Pro Pro Glu Glu Gln Leu Thr Phe Lys Asp Leu Val Ser Cys
580 585 590

Ala Tyr Gln Val Ala Arg Gly Met Glu Tyr Leu Ala Ser Lys Cys Ile
595 600 605

His Arg Asp Leu Ala Ala Arg Asn Val Leu Val Thr Glu Asp Asn Val
610 615 620

Met Lys Ile Ala Asp Phe Gly Leu Ala Arg Asp Val His Asn Leu Asp
625 630 635 640

Tyr Tyr Lys Lys Thr Thr Asn Gly Arg Leu Pro Val Lys Trp Met Ala
645 650 655

Pro Glu Ala Leu Phe Asp Arg Val Tyr Thr His Ser Asp Val Ser Phe
660 665 670

Gly Val Leu Leu Trp Glu Ile Phe Thr Leu Gly Gly Ser Pro Tyr Pro
675 680 685

Gly Ile Pro Val Glu Glu Leu Phe Lys Leu Leu Lys Glu Gly His Arg
690 695 700

Met Asp Lys Pro Ala Asn Cys Thr His Asp Leu Tyr Met Ile Met Arg
705 710 715 720

Glu Cys Trp His Ala Ala Pro Ser Arg Pro Thr Phe Lys Leu Val Glu
725 730 735

Asp Leu Asp Arg Val Leu Thr Val Thr Ser Thr Asp Glu Tyr Leu Asp
740 745 750

Leu Ser Ala Pro Phe Glu Tyr Ser Pro Gly Gly Gln Asp Thr Pro Ser
755 760 765

Ser Ser Ser Ser Gly Asp Asp Ser Val Phe Ala His Asp Leu Leu Pro
770 775 780

Pro Ala Pro Pro Ser Ser Gly Gly Ser Arg Thr
785 790 795