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<110> GLYTECH, INC.

<120> GLYCOSYLATED POLYPEPTIDE AND DRUG COMPOSITION CONTAINING SAID POLYPEPTIDE

<130> SG4476A

<150> JP2011-192203

<151> 2011-09-04

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<170> PatentIn version 3.1

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Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys

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Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys
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<400> 49

Ser Ala Asn Ser Asn Pro Ala Met Ala Pro Arg Glu Arg Lys Ala Gly
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Cys Lys Cys Phe Phe Trp Lys Thr Phe Thr Ser Cys
20 25

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Ser Ala Asn Ser Asn Pro Ala Met Ala Pro Arg Glu Arg Lys Ala Gly
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Cys Lys Asn Phe Cys Trp Lys Thr Phe Thr Ser Cys
20 25

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

Cys Lys Asn Phe Phe Trp Lys Thr Phe Cys Ser Cys
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Ser Ala Asn Ser Asn Pro Ala Met Ala Pro Arg Glu Arg Lys Ala Gly
1 5 10 15

Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys Cys
20 25

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Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys Thr Cys
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1 5 10 15

Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys
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<400> 55

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1 5 10 15

Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys
20 25

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Cys Ala Gly Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys
1 5 10 15

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<400> 57

Cys Arg Lys Ala Gly Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser
1 5 10 15

Cys

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Ala Gly Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys
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Cys Ala Gly Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys
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<223> Cys and Ala are bonded through C12linker

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<222> (1)..(1)

<223> disialo sugar chain added

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<400> 62

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Gly Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys
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Gly Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys
 20 25

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Cys Cys Ala Asn Ser Asn Pro Ala Met Ala Pro Arg Glu Arg Lys Ala
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Gly Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys
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Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys
20 25

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<223> Acn

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Cys Ala Asn Ser Asn Pro Ala Met Ala Pro Arg Glu Cys Lys Ala Gly
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Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys
20 25

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<223> Acn

<400> 67

Ser Ala Asn Ser Cys Pro Ala Met Cys Pro Arg Glu Arg Lys Ala Gly
1 5 10 15

Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys
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<210> 68

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<223> Acn

<400> 68

Cys Cys Cys Ala Asn Ser Asn Pro Ala Met Ala Pro Arg Glu Arg Lys
1 5 10 15

Ala Gly Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys
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Cys Cys Cys Ala Asn Ser Asn Pro Ala Met Ala Pro Arg Glu Arg Lys
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Ala Gly Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys
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Cys Cys Cys Ala Asn Ser Asn Pro Ala Met Ala Pro Arg Glu Arg Lys
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Cys Ala Asn Ser Cys Pro Ala Met Cys Pro Arg Glu Arg Lys Ala Gly
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Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys
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<223> Acn

<400> 72

Cys Cys Ala Asn Ser Asn Pro Ala Met Ala Pro Arg Glu Arg Lys Ala
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Gly Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys
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Cys Cys Ala Asn Ser Asn Pro Ala Met Ala Pro Arg Glu Arg Lys Ala
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Gly Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys
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<400> 74

Cys	Cys	Cys	Ala	Asn	Ser	Asn	Pro	Ala	Met	Ala	Pro	Arg	Glu	Arg	Lys
1				5					10					15	

Ala	Gly	Cys	Lys	Asn	Phe	Phe	Trp	Lys	Thr	Phe	Thr	Ser	Cys
			20					25					30

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<400> 75

Cys Cys Cys Ala Asn Ser Asn Pro Ala Met Ala Pro Arg Glu Arg Lys
 1 5 10 15

Ala Gly Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys
 20 25 30

<210> 76
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<222> (23)..(23)

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<400> 76

Pro Ala Met Ala Pro Arg Glu Arg Lys Ala Gly Cys Lys Asn Phe Phe
1 5 10 15

Trp Lys Thr Phe Thr Ser Cys
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<210> 77

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<223> disialo sugar chain protected with benzyl group added

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Asn Pro Ala Met Ala Pro Arg Glu Arg Lys Ala Gly Cys Lys Asn Phe
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Phe Trp Lys Thr Phe Thr Ser Cys
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<222> (5)..(5)
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<400> 78

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

Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys
20 25

<210> 79
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Ser Ala Asn Ser Asn Pro Ala Met Ala Pro Arg Glu Arg Lys Ala Gly
1 5 10 15

Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys
 20 25

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<400> 80

Ala Asn Ser Asn Pro Ala Met Ala Pro Arg Glu Arg Lys Ala Gly Cys
 1 5 10 15

Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys
 20 25

<210> 81
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<400> 81

Asn Ala Asn Ser Asn Pro Ala Met Ala Pro Arg Glu Arg Lys Ala Gly
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Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys
 20 25

<210> 82
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<400> 82

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

Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys
 20 25

<210> 83
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<400> 83

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

Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys
 20 25

<210> 84
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<223> Acn

<220>
<221> BINDING
<222> (28)..(28)
<223> Acn

<220>
<221> BINDING
<222> (1)..(1)
<223> Biotin

<400> 118

Cys Ala Asn Ser Asn Pro Ala Met Ala Pro Arg Glu Arg Lys Ala Gly
1 5 10 15

Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys
20 25

<210> 119
<211> 28
<212> PRT
<213> artificial sequence

<220>
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<220>
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<222> (17)..(28)
<223>

<220>

<221> CARBOHYD
<222> (1)..(1)
<223> disialo sugar chain added

<220>
<221> BINDING
<222> (1)..(1)
<223> Biotin

<400> 119

Cys Ala Asn Ser Asn Pro Ala Met Ala Pro Arg Glu Arg Lys Ala Gly
1 5 10 15

Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys
20 25

<210> 120
<211> 28
<212> PRT
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<220>
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<220>
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<220>
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<222> (28)..(28)
<223> Acn

<220>
<221> BINDING
<222> (1)..(1)
<223> Biotin is bonded to Cys through PEGlinker

<400> 120

Cys Ala Asn Ser Asn Pro Ala Met Ala Pro Arg Glu Arg Lys Ala Gly
1 5 10 15

Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys
20 25

<210> 121
<211> 28
<212> PRT
<213> artificial sequence

<220>
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<220>
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<222> (17)..(28)
<223>

<220>

<221> CARBOHYD
<222> (1)..(1)
<223> disialo sugar chain added

<220>
<221> BINDING
<222> (1)..(1)
<223> Biotin is bonded to Cys through PEGlinker

<400> 121

Cys Ala Asn Ser Asn Pro Ala Met Ala Pro Arg Glu Arg Lys Ala Gly
1 5 10 15

Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys
20 25

<210> 122
<211> 28
<212> PRT
<213> artificial sequence

<220>
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<220>
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<223> Acn

<220>
<221> BINDING
<222> (28)..(28)
<223> Acn

<220>
<221> BINDING
<222> (1)..(1)
<223> Azido pentanoyl is bonded to Cys

<400> 122

Cys Ala Asn Ser Asn Pro Ala Met Ala Pro Arg Glu Arg Lys Ala Gly
1 5 10 15

Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys
20 25

<210> 123
<211> 28
<212> PRT
<213> artificial sequence

<220>
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<220>
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<223>

<220>

<221> CARBOHYD
 <222> (1)..(1)
 <223> disialo sugar chain added

 <220>
 <221> BINDING
 <222> (1)..(1)
 <223> Azido pentanoyl is bonded to Cys

<400> 123

Cys Ala Asn Ser Asn Pro Ala Met Ala Pro Arg Glu Arg Lys Ala Gly
 1 5 10 15

Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys
 20 25

<210> 124
 <211> 28
 <212> PRT
 <213> artificial sequence

<220>
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<220>
 <221> BINDING
 <222> (17)..(17)
 <223> Acn

<220>
 <221> BINDING
 <222> (28)..(28)
 <223> Acn

<400> 124

Cys Ala Asn Ser Asn Pro Ala Met Ala Pro Arg Cys Arg Lys Ala Gly
 1 5 10 15

Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys
 20 25

<210> 125
 <211> 28
 <212> PRT
 <213> artificial sequence

<220>
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<220>
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 <222> (17)..(28)
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 <221> CARBOHYD
 <222> (1)..(1)
 <223> disialo sugar chain added

<220>

<221> CARBOHYD
<222> (12)..(12)
<223> disialo sugar chain added

<400> 125

Cys Ala Asn Ser Asn Pro Ala Met Ala Pro Arg Cys Arg Lys Ala Gly
1 5 10 15

Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys
20 25

<210> 126
<211> 18
<212> PRT
<213> artificial sequence

<220>
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<220>
<221> BINDING
<222> (7)..(7)
<223> Acn

<220>
<221> BINDING
<222> (18)..(18)
<223> Acn

<400> 126

Cys Cys Arg Lys Ala Gly Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr
1 5 10 15

Ser Cys

<210> 127
<211> 18
<212> PRT
<213> artificial sequence

<220>
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<220>
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<222> (7)..(18)
<223>

<220>
<221> CARBOHYD
<222> (1)..(1)
<223> disialo sugar chain added

<220>
<221> CARBOHYD
<222> (2)..(2)
<223> disialo sugar chain added

<400> 127

Cys Cys Arg Lys Ala Gly Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr
1 5 10 15

Ser Cys

<210> 128

<211> 19

<212> PRT

<213> artificial sequence

<220>

<223> chemically synthesized

<220>

<221> BINDING

<222> (8)..(8)

<223> Acn

<220>

<221> BINDING

<222> (19)..(19)

<223> Acn

<400> 128

Cys Cys Cys Arg Lys Ala Gly Cys Lys Asn Phe Phe Trp Lys Thr Phe
1 5 10 15

Thr Ser Cys

<210> 129

<211> 19

<212> PRT

<213> artificial sequence

<220>

<223> chemically synthesized

<220>

<221> DISULFID

<222> (8)..(19)

<223>

<220>

<221> CARBOHYD

<222> (1)..(1)

<223> disialo sugar chain added

<220>

<221> CARBOHYD

<222> (2)..(2)

<223> disialo sugar chain added

<220>

<221> CARBOHYD

<222> (3)..(3)

<223> disialo sugar chain added

<400> 129

Cys Cys Cys Arg Lys Ala Gly Cys Lys Asn Phe Phe Trp Lys Thr Phe
 1 5 10 15

Thr Ser Cys

<210> 130
 <211> 28
 <212> PRT
 <213> artificial sequence

<220>
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<220>
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 <223> Acn

<220>
 <221> BINDING
 <222> (28)..(28)
 <223> Acn

<220>
 <221> CARBOHYD
 <222> (1)..(1)
 <223> diGlcNAc sugar chain added

<400> 130

Cys Ala Asn Ser Asn Pro Ala Met Ala Pro Arg Glu Arg Lys Ala Gly
 1 5 10 15

Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys
 20 25

<210> 131
 <211> 28
 <212> PRT
 <213> artificial sequence

<220>
 <223> chemically synthesized

<220>
 <221> CARBOHYD
 <222> (1)..(1)
 <223> diGlcNAc sugar chain added

<400> 131

Cys Ala Asn Ser Asn Pro Ala Met Ala Pro Arg Glu Arg Lys Ala Gly
 1 5 10 15

Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys
 20 25

<210> 132
 <211> 28

<212> PRT
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<220>
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<220>
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<222> (17)..(28)
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<220>
<221> CARBOHYD
<222> (1)..(1)
<223> diGlcNAc sugar chain added

<400> 132

Cys Ala Asn Ser Asn Pro Ala Met Ala Pro Arg Glu Arg Lys Ala Gly
1 5 10 15

Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys
20 25

<210> 133
<211> 28
<212> PRT
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<220>
<223> chemically synthesized

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<222> (17)..(28)
<223>

<220>
<221> CARBOHYD
<222> (1)..(1)
<223> diMan sugar chain added

<400> 133

Cys Ala Asn Ser Asn Pro Ala Met Ala Pro Arg Glu Arg Lys Ala Gly
1 5 10 15

Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys
20 25

<210> 134
<211> 28
<212> PRT
<213> artificial sequence

<220>
<223> chemically synthesized

<220>
<221> DISULFID
<222> (17)..(28)
<223>

<220>
<221> CARBOHYD
<222> (19)..(19)
<223> diMan sugar chain added

<400> 134

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

Cys Lys Cys Phe Phe Trp Lys Thr Phe Thr Ser Cys
20 25

<210> 135
<211> 28
<212> PRT
<213> artificial sequence

<220>
<223> chemically synthesized

<220>
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<222> (17)..(28)
<223>

<220>
<221> CARBOHYD
<222> (1)..(1)
<223> GlcNAc added

<400> 135

Cys Ala Asn Ser Asn Pro Ala Met Ala Pro Arg Glu Arg Lys Ala Gly
1 5 10 15

Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys
20 25

<210> 136
<211> 28
<212> PRT
<213> artificial sequence

<220>
<223> chemically synthesized

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<222> (17)..(28)
<223>

<220>
<221> CARBOHYD
<222> (19)..(19)
<223> GlcNAc added

<400> 136

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

Cys Lys Cys Phe Phe Trp Lys Thr Phe Thr Ser Cys
20 25

<210> 137
<211> 28
<212> PRT
<213> artificial sequence

<220>
<223> chemically synthesized

<220>
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<222> (17)..(28)
<223>

<220>
<221> CARBOHYD
<222> (1)..(1)
<223> Trisialo sugar chain added

<400> 137

Cys Ala Asn Ser Asn Pro Ala Met Ala Pro Arg Glu Arg Lys Ala Gly
1 5 10 15

Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys
20 25

<210> 138
<211> 28
<212> PRT
<213> artificial sequence

<220>
<223> chemically synthesized

<220>
<221> DISULFID
<222> (17)..(28)
<223>

<220>
<221> CARBOHYD
<222> (1)..(1)
<223> Tetrasialo sugar chain added

<400> 138

Cys Ala Asn Ser Asn Pro Ala Met Ala Pro Arg Glu Arg Lys Ala Gly
1 5 10 15

Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys
20 25

<210> 139
<211> 28

<212> PRT
<213> artificial sequence

<220>
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<220>
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<223> Acn

<220>
<221> BINDING
<222> (28)..(28)
<223> Acn

<220>
<221> CARBOHYD
<222> (1)..(1)
<223> Disialo(Boc-aminoethylamide) sugar chain added

<400> 139

Cys Ala Asn Ser Asn Pro Ala Met Ala Pro Arg Glu Arg Lys Ala Gly
1 5 10 15

Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys
20 25

<210> 140
<211> 28
<212> PRT
<213> artificial sequence

<220>
<223> chemically synthesized

<220>
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<222> (17)..(17)
<223> Acn

<220>
<221> BINDING
<222> (28)..(28)
<223> Acn

<220>
<221> CARBOHYD
<222> (1)..(1)
<223> Disialo(aminoethylamide) sugar chain added

<400> 140

Cys Ala Asn Ser Asn Pro Ala Met Ala Pro Arg Glu Arg Lys Ala Gly
1 5 10 15

Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys
20 25

<210> 141
<211> 28

<212> PRT
<213> artificial sequence

<220>
<223> chemically synthesized

<220>
<221> CARBOHYD
<222> (1)..(1)
<223> Disialo(aminoethylamide) sugar chain added

<400> 141

Cys Ala Asn Ser Asn Pro Ala Met Ala Pro Arg Glu Arg Lys Ala Gly
1 5 10 15

Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys
20 25

<210> 142
<211> 28
<212> PRT
<213> artificial sequence

<220>
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<220>
<221> DISULFID
<222> (17)..(28)
<223>

<220>
<221> CARBOHYD
<222> (1)..(1)
<223> Disialo(aminoethylamide) sugar chain added

<400> 142

Cys Ala Asn Ser Asn Pro Ala Met Ala Pro Arg Glu Arg Lys Ala Gly
1 5 10 15

Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys
20 25

<210> 143
<211> 28
<212> PRT
<213> artificial sequence

<220>
<223> chemically synthesized

<220>
<221> DISULFID
<222> (17)..(28)
<223>

<220>
<221> CARBOHYD
<222> (1)..(1)
<223> Disialo(amide) sugar chain added

<400> 143

Cys Ala Asn Ser Asn Pro Ala Met Ala Pro Arg Glu Arg Lys Ala Gly
1 5 10 15

Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys
20 25

<210> 144
<211> 28
<212> PRT
<213> artificial sequence

<220>
<223> chemically synthesized

<220>
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<222> (17)..(28)
<223>

<220>
<221> CARBOHYD
<222> (1)..(1)
<223> Disialo sugar chain protected with benzyl group added

<400> 144

Cys Ala Asn Ser Asn Pro Ala Met Ala Pro Arg Glu Arg Lys Ala Gly
1 5 10 15

Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys
20 25

<210> 145
<211> 28
<212> PRT
<213> artificial sequence

<220>
<223> chemically synthesized

<220>
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<222> (17)..(17)
<223> Acn

<220>
<221> BINDING
<222> (28)..(28)
<223> Acn

<220>
<221> CARBOHYD
<222> (1)..(1)
<223> Disialo(hexadecylamide) sugar chain added

<400> 145

Cys Ala Asn Ser Asn Pro Ala Met Ala Pro Arg Glu Arg Lys Ala Gly

1 5 10 15

Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys
20 25

<210> 146
<211> 28
<212> PRT
<213> artificial sequence

<220>
<223> chemically synthesized

<220>
<221> CARBOHYD
<222> (1)..(1)
<223> Disialo(hexadecylamide) sugar chain added

<400> 146

Cys Ala Asn Ser Asn Pro Ala Met Ala Pro Arg Glu Arg Lys Ala Gly
1 5 10 15

Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys
20 25

<210> 147
<211> 28
<212> PRT
<213> artificial sequence

<220>
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<220>
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<222> (17)..(28)
<223>

<220>
<221> CARBOHYD
<222> (1)..(1)
<223> Disialo(hexadecylamide) sugar chain added

<400> 147

Cys Ala Asn Ser Asn Pro Ala Met Ala Pro Arg Glu Arg Lys Ala Gly
1 5 10 15

Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys
20 25

<210> 148
<211> 29
<212> PRT
<213> artificial sequence

<220>
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<220>
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 <222> (18)..(29)
 <223>

<220>
 <221> CARBOHYD
 <222> (1)..(1)
 <223> Disialo(amide) sugar chain added

<220>
 <221> CARBOHYD
 <222> (2)..(2)
 <223> Disialo(amide) sugar chain added

<400> 148

Cys Cys Ala Asn Ser Asn Pro Ala Met Ala Pro Arg Glu Arg Lys Ala
 1 5 10 15

Gly Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys
 20 25

<210> 149
 <211> 29
 <212> PRT
 <213> artificial sequence

<220>
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<220>
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 <222> (18)..(29)
 <223>

<220>
 <221> CARBOHYD
 <222> (1)..(1)
 <223> Disialo sugar chain protected with benzyl group added

<220>
 <221> CARBOHYD
 <222> (2)..(2)
 <223> Disialo sugar chain protected with benzyl group added

<400> 149

Cys Cys Ala Asn Ser Asn Pro Ala Met Ala Pro Arg Glu Arg Lys Ala
 1 5 10 15

Gly Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys
 20 25

<210> 150
 <211> 28
 <212> PRT
 <213> artificial sequence

<220>
 <223> chemically synthesized

<220>
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<222> (17)..(28)
<223>

<220>
<221> CARBOHYD
<222> (1)..(1)
<223> Asn(disialo) added

<400> 150

Cys Ala Asn Ser Asn Pro Ala Met Ala Pro Arg Glu Arg Lys Ala Gly
1 5 10 15

Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys
20 25

<210> 151
<211> 27
<212> PRT
<213> artificial sequence

<220>
<223> chemically synthesized

<220>
<221> BINDING
<222> (1)..(1)
<223> Fmoc

<220>
<221> BINDING
<222> (2)..(2)
<223> Trt

<220>
<221> BINDING
<222> (3)..(3)
<223> tBu

<220>
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<222> (4)..(4)
<223> Trt

<220>
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<222> (10)..(10)
<223> Pbf

<220>
<221> BINDING
<222> (11)..(11)
<223> OtBu

<220>
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<222> (12)..(12)
<223> Pbf

<220>
<221> BINDING
<222> (13)..(13)
<223> Boc

<220>

<221> BINDING
<222> (16)..(16)
<223> Acn

<220>
<221> BINDING
<222> (17)..(17)
<223> Boc

<220>
<221> BINDING
<222> (18)..(18)
<223> Trt

<220>
<221> BINDING
<222> (21)..(21)
<223> Boc

<220>
<221> BINDING
<222> (22)..(22)
<223> Boc

<220>
<221> BINDING
<222> (23)..(23)
<223> tBu

<220>
<221> BINDING
<222> (25)..(25)
<223> tBu

<220>
<221> BINDING
<222> (26)..(26)
<223> tBu

<220>
<221> BINDING
<222> (27)..(27)
<223> Acn

<220>
<221> BINDING
<222> (27)..(27)
<223> Resin

<400> 151

Ala Asn Ser Asn Pro Ala Met Ala Pro Arg Glu Arg Lys Ala Gly Cys
1 5 10 15

Lys Cys Phe Phe Trp Lys Thr Phe Thr Ser Cys
20 25

<210> 152
<211> 28
<212> PRT
<213> artificial sequence

<220>
<223> chemically synthesized

<220>
 <221> CARBOHYD
 <222> (1)..(1)
 <223> Disialo sugar chain protected with benzyl group added

<220>
 <221> BINDING
 <222> (3)..(3)
 <223> Trt

<220>
 <221> BINDING
 <222> (4)..(4)
 <223> tBu

<220>
 <221> BINDING
 <222> (5)..(5)
 <223> Trt

<220>
 <221> BINDING
 <222> (11)..(11)
 <223> Pbf

<220>
 <221> BINDING
 <222> (12)..(12)
 <223> OtBu

<220>
 <221> BINDING
 <222> (13)..(13)
 <223> Pbf

<220>
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 <222> (14)..(14)
 <223> Boc

<220>
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 <222> (17)..(17)
 <223> Acn

<220>
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 <223> Boc

<220>
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 <222> (19)..(19)
 <223> Trt

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 <223> Boc

<220>
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 <222> (23)..(23)
 <223> Boc

<220>
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 <222> (24)..(24)

<223> tBu

<220>

<221> BINDING

<222> (26)..(26)

<223> tBu

<220>

<221> BINDING

<222> (27)..(27)

<223> tBu

<220>

<221> BINDING

<222> (28)..(28)

<223> Acn

<220>

<221> BINDING

<222> (28)..(28)

<223> Resin

<400> 152

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

Cys Lys Cys Phe Phe Trp Lys Thr Phe Thr Ser Cys
20 25

<210> 153

<211> 28

<212> PRT

<213> artificial sequence

<220>

<223> chemically synthesized

<220>

<221> BINDING

<222> (17)..(17)

<223> Acn

<220>

<221> BINDING

<222> (28)..(28)

<223> Acn

<220>

<221> CARBOHYD

<222> (1)..(1)

<223> Disialo sugar chain protected with benzyl group added

<400> 153

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

Cys Lys Cys Phe Phe Trp Lys Thr Phe Thr Ser Cys
20 25

<210> 154

<211> 28
<212> PRT
<213> artificial sequence

<220>
<223> chemically synthesized

<220>
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<222> (17)..(17)
<223> Acn

<220>
<221> BINDING
<222> (28)..(28)
<223> Acn

<220>
<221> CARBOHYD
<222> (1)..(1)
<223> Disialo sugar chain protected with benzyl group added

<220>
<221> CARBOHYD
<222> (19)..(19)
<223> diMan sugar chain added

<400> 154

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

Cys Lys Cys Phe Phe Trp Lys Thr Phe Thr Ser Cys
20 25

<210> 155
<211> 28
<212> PRT
<213> artificial sequence

<220>
<223> chemically synthesized

<220>
<221> CARBOHYD
<222> (1)..(1)
<223> Disialo sugar chain protected with benzyl group added

<220>
<221> CARBOHYD
<222> (19)..(19)
<223> diMan sugar chain added

<400> 155

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

Cys Lys Cys Phe Phe Trp Lys Thr Phe Thr Ser Cys
20 25

<210> 156
<211> 28

<212> PRT
<213> artificial sequence

<220>
<223> chemically synthesized

<220>
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<222> (17)..(28)
<223>

<220>
<221> CARBOHYD
<222> (1)..(1)
<223> Disialo sugar chain protected with benzyl group added

<220>
<221> CARBOHYD
<222> (19)..(19)
<223> diMan sugar chain added

<400> 156

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

Cys Lys Cys Phe Phe Trp Lys Thr Phe Thr Ser Cys
20 25

<210> 157
<211> 28
<212> PRT
<213> artificial sequence

<220>
<223> chemically synthesized

<220>
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<222> (17)..(28)
<223>

<220>
<221> CARBOHYD
<222> (1)..(1)
<223> Disialo sugar chain added

<220>
<221> CARBOHYD
<222> (19)..(19)
<223> diMan sugar chain added

<400> 157

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

Cys Lys Cys Phe Phe Trp Lys Thr Phe Thr Ser Cys
20 25

<210> 158
<211> 29
<212> PRT
<213> artificial sequence

<220>
<223> chemically synthesized

<220>
<221> BINDING
<222> (1)..(1)
<223> Fmoc

<220>
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<222> (1)..(1)
<223> Trt

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