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<110> GLYTECH, INC.

<120> GLYCOSYLATED POLYPEPTIDE AND DRUG COMPOSITION CONTAINING SAID POLYPEPTIDE

<130> SG4475A

<150> JP2011-192202

<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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<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
1 5 10 15

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
20 25

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<400> 52

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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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 Thr Cys
20 25 30

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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

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<400> 55

Ser Ala Asn Ser Asn 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
20 25

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<400> 56

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

<210> 57
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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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<400> 59

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

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<400> 60

Cys 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> Acn

<400> 62

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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<210> 63

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<221> CARBOHYD

<222> (2)..(2)

<223> disialo sugar chain added

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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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<400> 65

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

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

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Ser 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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<210> 68
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<223> Acn

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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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<223> disialo sugar chain added

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<223> Acn

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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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Ala Gly Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys
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Cys 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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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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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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<210> 75

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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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<210> 76

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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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<400> 77

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

Phe Trp Lys Thr Phe Thr Ser Cys
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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

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<222> (5)..(5)
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<400> 79

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> 80
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<223> Trt

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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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<220>
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<223> Trt

<220>
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<223> Resin

<400> 81

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> 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

<211> 28

<212> PRT

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<223> chemically synthesized

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<223> disialo sugar chain protected with benzyl group added

<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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<212> PRT

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<223> Acn

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<223> Acn

<400> 84

Cys 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> 85
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<223> Acn

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<222> (19)..(19)
<223> GlcNAc added

<400> 85

Cys 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> 86
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<222> (19)..(19)
<223> GlcNAc added

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<223> Acn

<400> 86

Cys 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> 87
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<223> GlcNAc added

<400> 87

Cys 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

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<223> Acn

<400> 88

Cys Ser 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> 89
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<223> disialo sugar chain added

<400> 89

Cys Ser 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> 90
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<223> Acn

<400> 90

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

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

<210> 91
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<223> disialo sugar chain added

<400> 91

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

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

<210> 92

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<400> 92

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

Cys Lys Asn Cys Phe Trp Lys Thr Phe Thr Ser Cys
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<210> 93

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<400> 93

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

Cys Lys Asn Cys Phe Trp Lys Thr Phe Thr Ser Cys
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<400> 94

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 Cys Phe Thr Ser Cys
20 25

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<400> 95

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 Cys 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 Cys Thr Ser Cys
20 25

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<222> (25)..(25)
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<400> 97

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 Cys Thr Ser Cys
20 25

<210> 98
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<223> Acn

<400> 98

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 Cys Cys
20 25

<210> 99
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<222> (27)..(27)
<223> disialo sugar chain added

<400> 99

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 Cys Cys
20 25

<210> 100
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<222> (16)..(16)
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<400> 100

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

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

<400> 101

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

<210> 102
<211> 28
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<400> 102

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 Tyr Thr Ser Cys
20 25

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<400> 103

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 Tyr Thr Ser Cys
20 25

<210> 104
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<222> (28)..(28)
<223> AMIDATION

<400> 104

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> 105
<211> 28
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<222> (1)..(1)
<223> disialo sugar chain added

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<221> MOD_RES
<222> (28)..(28)
<223> AMIDATION

<400> 105

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> 106
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<222> (15)..(15)
<223> Acn

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<222> (1)..(2)
<223> Cys and Ala are bonded through PEGlinker

<400> 106

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

<210> 107
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<220>
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<222> (4)..(15)
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<221> CARBOHYD

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

 <220>
 <221> NON_CONS
 <222> (1)..(2)
 <223> Cys and Ala are bonded through PEGlinker

 <400> 107
 Cys Ala Gly Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys
 1 5 10 15

 <210> 108
 <211> 28
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 <223> Fmoc

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 <223> Trt

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 <222> (3)..(3)
 <223> Trt

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 <223> tBu

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 <223> Trt

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 <223> Pbf

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<223> tBu

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<223> tBu

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

<400> 108

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> 109
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<222> (28)..(28)
<223> AcM

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<222> (1)..(1)
<223> Biotin

<400> 109

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> 110
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<223> disialo sugar chain added

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<222> (1)..(1)
<223> Biotin

<400> 110

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

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<223> Acn

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<223> Biotin is bonded to Cys through PEGlinker

<400> 111

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> 112
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<223> Biotin is bonded to Cys through PEGlinker

<400> 112

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

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<223> Azido pentanoyl is bonded to Cys

<400> 113

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> 114
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<220>
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<223> Azido pentanoyl is bonded to Cys

<400> 114

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> 115
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<223> AcM

<400> 115

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> 116
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<223> disialo sugar chain added

<220>
<221> CARBOHYD
<222> (12)..(12)
<223> disialo sugar chain added

<400> 116

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> 117
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<221> BINDING
<222> (18)..(18)
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<400> 117

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

Ser Cys

<210> 118
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<223> disialo sugar chain added

<400> 118

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

Ser Cys

<210> 119
<211> 19
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<223> Acn

<400> 119

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

Thr Ser Cys

<210> 120

<211> 19

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<222> (8)..(19)

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<221> CARBOHYD

<222> (1)..(1)

<223> disialo sugar chain added

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<221> CARBOHYD

<222> (2)..(2)

<223> disialo sugar chain added

<220>

<221> CARBOHYD

<222> (3)..(3)

<223> disialo sugar chain added

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

Thr Ser Cys

<210> 121

<211> 28

<212> PRT

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<223> AcM

<220>

<221> CARBOHYD

<222> (1)..(1)

<223> diGlcNAc sugar chain added

<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

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<223> chemically synthesized

<220>

<221> CARBOHYD

<222> (1)..(1)

<223> diGlcNAc sugar chain added

<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

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<223> chemically synthesized

<220>

<221> DISULFID

<222> (17)..(28)

<223>

<220>

<221> CARBOHYD

<222> (1)..(1)

<223> diGlcNAc sugar chain added

<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

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

<400> 124

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> 125
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<220>
<221> CARBOHYD
<222> (19)..(19)
<223> diMan sugar chain added

<400> 125

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

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<222> (17)..(28)
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<220>
<221> CARBOHYD
<222> (1)..(1)
<223> GlcNAc added

<400> 126

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> 127
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<222> (19)..(19)
<223> GlcNAc added

<400> 127

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> 128
<211> 28
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<222> (1)..(1)
<223> Trisialo sugar chain added

<400> 128

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

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

<400> 129

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

<220>
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<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(Boc-aminoethylamide) 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

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

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

<220>
 <221> CARBOHYD
 <222> (1)..(1)
 <223> Disialo(aminoethylamide) 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
 <213> artificial sequence

<220>
 <223> chemically synthesized

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

<400> 134

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> 135
<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 protected with benzyl group 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

<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> 136

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> 137

<211> 28

<212> PRT

<213> artificial sequence

<220>

<223> chemically synthesized

<220>

<221> CARBOHYD

<222> (1)..(1)

<223> Disialo(hexadecylamide) 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>
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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> 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> 29
 <212> PRT
 <213> artificial sequence

<220>
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<220>
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 <222> (18)..(29)
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<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> 139

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> 140
 <211> 29
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 <213> artificial sequence

<220>
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 <220>
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 <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> 140
 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> 141
 <211> 28
 <212> PRT
 <213> artificial sequence

 <220>
 <223> chemically synthesized

 <220>
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 <223>

 <220>
 <221> CARBOHYD
 <222> (1)..(1)
 <223> Asn(disialo) 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> 27
 <212> PRT
 <213> artificial sequence

 <220>
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 <220>
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<222> (1)..(1)
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 <220>
 <221> BINDING
 <222> (2)..(2)
 <223> Trt

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

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

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

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

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

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

 <220>
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 <222> (16)..(16)
 <223> Acn

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

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

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

 <220>
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 <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> 142

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

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

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

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

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

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

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 <222> (18)..(18)
 <223> Boc

<220>
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 <222> (19)..(19)
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<220>
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 <222> (22)..(22)
 <223> Boc

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

<220>
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 <222> (24)..(24)
 <223> tBu

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 <222> (26)..(26)
 <223> tBu

<220>
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 <222> (27)..(27)
 <223> tBu

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

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

<400> 143

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> 144
<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

<400> 144

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

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

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

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

<400> 145

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

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

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

<400> 146

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

<220>
<223> chemically synthesized

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

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

<400> 147

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> 148
 <211> 28
 <212> PRT
 <213> artificial sequence

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

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

<400> 148

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

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

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 <222> (2)..(2)
 <223> StBu

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

<220>
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 <222> (5)..(5)
 <223> tBu

<220>

<221> BINDING
 <222> (6)..(6)
 <223> Trt

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

<220>
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 <222> (13)..(13)
 <223> OtBu

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

<220>
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 <222> (15)..(15)
 <223> Boc

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 <222> (18)..(18)
 <223> Acn

<220>
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 <223> Boc

<220>
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 <222> (20)..(20)
 <223> Trt

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

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 <223> Boc

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 <222> (27)..(27)
 <223> tBu

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

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 <222> (29)..(29)
 <223> Acn

<220>
 <221> BINDING
 <222> (29)..(29)
 <223> Resin

<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> 29
 <212> PRT
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<220>
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<220>
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 <222> (2)..(2)
 <223> StBu

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 <222> (18)..(18)
 <223> Acn

<220>
 <221> BINDING
 <222> (29)..(29)
 <223> Acn

<400> 150

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> 151
 <211> 29
 <212> PRT
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<220>
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<220>
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 <222> (2)..(2)
 <223> StBu

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

<220>

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<223> Acn

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

<400> 151

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> 152
<211> 29
<212> PRT
<213> artificial sequence

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

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

<400> 152

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> 153
<211> 29
<212> PRT
<213> artificial sequence

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

<223> Acn
 <220>
 <221> CARBOHYD
 <222> (1)..(1)
 <223> Disialo(aminoethylamide) sugar chain added
 <220>
 <221> CARBOHYD
 <222> (2)..(2)
 <223> Disialo sugar chain added
 <400> 153
 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> 154
 <211> 29
 <212> PRT
 <213> artificial sequence
 <220>
 <223> chemically synthesized
 <220>
 <221> CARBOHYD
 <222> (1)..(1)
 <223> Disialo(aminoethylamide) sugar chain added
 <220>
 <221> CARBOHYD
 <222> (2)..(2)
 <223> Disialo sugar chain added
 <400> 154
 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> 155
 <211> 29
 <212> PRT
 <213> artificial sequence
 <220>
 <223> chemically synthesized
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 <222> (18)..(29)
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 <221> CARBOHYD
 <222> (1)..(1)
 <223> Disialo(aminoethylamide) sugar chain added

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

 <400> 155

 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> 156
 <211> 31
 <212> PRT
 <213> artificial sequence

 <220>
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<220>
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 <223> Fmoc

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

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

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

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

<220>
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 <222> (6)..(6)
 <223> Trt

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

<220>
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 <222> (8)..(8)
 <223> Trt

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

<220>
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<222> (15)..(15)
<223> OtBu

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<222> (16)..(16)
<223> Pbf

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

<220>
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<223> Acn

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

<220>
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<222> (22)..(22)
<223> Trt

<220>
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<222> (25)..(25)
<223> Boc

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

<220>
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<222> (27)..(27)
<223> tBu

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

<220>
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<222> (30)..(30)
<223> tBu

<220>
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<222> (31)..(31)
<223> Acn

<220>
<221> BINDING
<222> (31)..(31)
<223> Resin

<400> 156

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

1	5	10	15
Lys	Ala	Gly	Cys
		20	
Lys	Asn	Phe	Phe
		25	
Trp	Lys	Thr	Phe
			30
Ser	Cys		

<210> 157
 <211> 31
 <212> PRT
 <213> artificial sequence

<220>
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<220>
 <221> BINDING
 <222> (20)..(20)
 <223> Acn

<220>
 <221> BINDING
 <222> (31)..(31)
 <223> Acn

<400> 157

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

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

<210> 158
 <211> 31
 <212> PRT
 <213> artificial sequence

<220>
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<220>
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 <222> (20)..(20)
 <223> Acn

<220>
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 <222> (31)..(31)
 <223> Acn

<220>
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 <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

<220>
 <221> CARBOHYD
 <222> (4)..(4)
 <223> disialo sugar chain added

<400> 158

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

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

<210> 159
 <211> 31
 <212> PRT
 <213> artificial sequence

<220>
 <223> chemically synthesized

<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

<220>
 <221> CARBOHYD
 <222> (4)..(4)
 <223> disialo sugar chain added

<400> 159

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

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

<210> 160
 <211> 31
 <212> PRT
 <213> artificial sequence

<220>
 <223> chemically synthesized

<220>
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 <222> (20)..(31)
 <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

<220>
 <221> CARBOHYD
 <222> (4)..(4)
 <223> disialo sugar chain added

<400> 160

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

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