

[Figure 1A]

Compound name	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
S1C(distalo)-SRIF28	C	A	N	S	N	P	A	M	A	P	R	E	R	K	A	G	C	K	N	F	F	W	K	T	F	T	S	C
N5C(distalo)-SRIF28	S	A	N	S	C	P	A	M	A	P	R	E	R	K	A	G	C	K	N	F	F	W	K	T	F	T	S	C
A9C(distalo)-SRIF28	S	A	N	S	N	P	A	M	C	P	R	E	R	K	A	G	C	K	N	F	F	W	K	T	F	T	S	C
E12C(distalo)-SRIF28	S	A	N	S	N	P	A	M	A	P	R	C	R	K	A	G	C	K	N	F	F	W	K	T	F	T	S	C
R13C(distalo)-SRIF28	S	A	N	S	N	P	A	M	A	P	R	E	C	K	A	G	C	K	N	F	F	W	K	T	F	T	S	C
K14C(distalo)-SRIF28	S	A	N	S	N	P	A	M	A	P	R	E	R	C	A	G	C	K	N	F	F	W	K	T	F	T	S	C
A15C(distalo)-SRIF28	S	A	N	S	N	P	A	M	A	P	R	E	R	K	C	G	C	K	N	F	F	W	K	T	F	T	S	C
G16C(distalo)-SRIF28	S	A	N	S	N	P	A	M	A	P	R	E	R	K	A	C	C	K	N	F	F	W	K	T	F	T	S	C
K18C(distalo)-SRIF28	S	A	N	S	N	P	A	M	A	P	R	E	R	K	A	G	C	C	N	F	F	W	K	T	F	T	S	C
N19C(distalo)-SRIF28	S	A	N	S	N	P	A	M	A	P	R	E	R	K	A	G	C	K	C	F	F	W	K	T	F	T	S	C
F21C(distalo)-SRIF28	S	A	N	S	N	P	A	M	A	P	R	E	R	K	A	G	C	K	N	F	C	W	K	T	F	T	S	C
T26C(distalo)-SRIF28	S	A	N	S	N	P	A	M	A	P	R	E	R	K	A	G	C	K	N	F	F	W	K	T	F	C	S	C
29C(distalo)-SRIF28	S	A	N	S	N	P	A	M	A	P	R	E	R	K	A	G	C	K	N	F	F	W	K	T	F	T	S	C
30C(distalo)-SRIF28	S	A	N	S	N	P	A	M	A	P	R	E	R	K	A	G	C	K	N	F	F	W	K	T	F	T	S	C
S1C(distalo)-D-Trp-SRIF28	C	A	N	S	N	P	A	M	A	P	R	E	R	K	A	G	C	K	N	F	F	W	K	T	F	T	S	C
A9C(distalo)-D-Trp-SRIF28	S	A	N	S	N	P	A	M	C	P	R	E	R	K	A	G	C	K	N	F	F	W	K	T	F	T	S	C
C(distalo)-SRIF14	C	A	N	S	N	P	A	M	A	P	R	E	R	K	A	G	C	K	N	F	F	W	K	T	F	T	S	C

[Figure 1B]

Compound name	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
C(distato)-R-K-SRIF 14	C R K A G C C K N F F W K T F T S C Distato SS																											
C(distato)-C12(linker)-SRIF 14	C C12 A G C K N F F W K T F T S C Distato Linker SS																											
S1-2C(distato)-SRIF 28	C C A N S M P A M A P R E R K A G C K N F F W K T F T S C Distato Distato SS																											
S1C(distato)-N5C(distato)-SRIF 28	C A N S C P A M A P R E R K A G C K N F F W K T F T S C Distato Distato SS																											
S1C(distato)-R1C(distato)-SRIF 28	C A H S N P A M A P R E R K A G C K N F F W K T F T S C Distato Distato SS																											
N5C(distato)-A1C(distato)-SRIF 28	S A H S C P A M C P R E R K A G C K N F F W K T F T S C Distato Distato SS																											
S1-3C(distato)-SRIF 28	C C C A H S N P A M A P R E R K A G C K N F F W K T F T S C Distato Distato Distato SS																											
S1C(distato)-N5C(distato)-A1C(distato)-SRIF 28	Q A M S C P A M C P R E R K A G C K N F F W K T F T S C Distato Distato Distato SS																											
S1C(monosialo)-SRIF 28	C A H S N P A M A P R E R K A G C K N F F W K T F T S C Monosialo SS																											
S1C(asialo)-SRIF 28	C A H S N P A M A P R E R K A G C K N F F W K T F T S C Asialo SS																											
S1-2C(asialo)-SRIF 28	C C A N S N P A M A P R E R K A G C K N F F W K T F T S C Asialo Asialo SS																											
S1-3C(asialo)-SRIF 28	C C C A N S N P A M A P R E R K A G C K N F F W K T F T S C Asialo Asialo Asialo SS																											
H5N(distato)-SRIF 28	S A N S N P A M A P R E R K A G C K N F F W K T F T S C Distato SS																											
S1N(distato)-SRIF 28	N A N S N P A M A P R E R K A G C K N F F W K T F T S C Distato SS																											
S1C(distato)-N19C(GlcNAc)-SRIF 28	C A N S N P A M A P R E R K A G C K C F F W K T F T S C Distato Distato GlcNAc SS																											
S1C(distato)-N19C(difluor)-SRIF 28	C A N S N P A M A P R E R K A G C K C F F W K T F T S C Distato Distato difluor SS																											

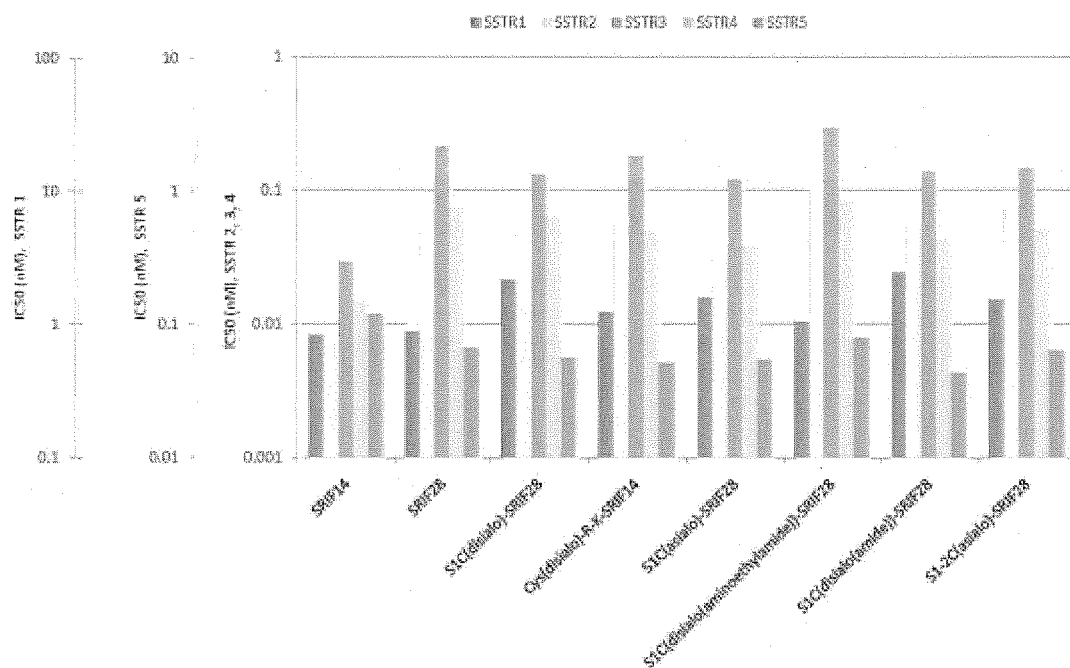
[Figure 1C]

Compound name	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28		
C(distalo)-SRIF28	C	S	A	N	S	N	P	A	M	A	P	R	E	R	K	A	G	C	K	N	F	F	W	K	T	F	T	S	C	
	Distalo																													
R11C(distalo)-SRIF28	S	A	N	S	N	P	A	M	A	P	C	E	R	K	A	G	C	K	N	F	F	W	K	T	F	T	S	C		
	Distalo																													
F20C(distalo)-SRIF28	S	A	N	S	N	P	A	M	A	P	R	E	R	K	A	G	C	K	N	C	F	W	K	T	F	T	S	C		
	Distalo																													
T21C(distalo)-SRIF28	S	A	N	S	N	P	A	M	A	P	R	E	R	K	A	G	C	K	N	F	F	W	K	C	F	T	S	C		
	Distalo																													
F25C(distalo)-SRIF28	S	A	N	S	N	P	A	M	A	P	R	E	R	K	A	G	C	K	N	F	F	W	K	T	C	T	S	C		
	Distalo																													
S27C(distalo)-SRIF28	S	A	N	S	N	P	A	M	A	P	R	E	R	K	A	G	C	K	N	F	F	W	K	T	F	T	S	C		
	Distalo																													
C(distalo)-K-SRIF14	C K A G C K N F F W K T F T S C																													
	Distalo																													
S1C(distalo)-F25Y-SRIF28	C	A	N	S	N	P	A	M	A	P	R	E	R	K	A	G	C	K	N	F	F	W	K	T	Y	T	S	C		
	Distalo																													
S1C(distalo)-SRIF28- amide	C	A	N	S	N	P	A	M	A	P	R	E	R	K	A	G	C	K	N	F	F	W	K	T	F	T	S	C		
	Distalo																													
C(distalo)-PEGlinker- SRIF14	C PEG A G C K N F F W K T F T S C																													
	Distalo Linker																													
Biotin-S1C(distalo)- SRIF28	Biotin	C	A	N	S	N	P	A	M	A	P	R	E	R	K	A	G	C	K	N	F	F	W	K	T	F	T	S	C	
	Distalo																													
Biotin-PEGlinker- S1C(distalo)-SRIF28	Biotin	PEG	C	A	N	S	N	P	A	M	A	P	R	E	R	K	A	G	C	K	N	F	F	W	K	T	F	T	S	C
	Distalo																													
Azido-S1C(distalo)- SRIF28	Azido	C	A	N	S	N	P	A	M	A	P	R	E	R	K	A	G	C	K	N	F	F	W	K	T	F	T	S	C	
	Distalo																													
S1C(distalo)- E12C(distalo)-SRIF28	C	A	N	S	N	P	A	M	A	P	R	C	R	K	A	G	C	K	N	F	F	W	K	T	F	T	S	C		
	Distalo																													
2C(distalo)-R-K-SRIF14	C C R K A G C K N F F W K T F T S C																													
	Distalo Distalo																													
3C(distalo)-R-K-SRIF14	C C C R K A G C K N F F W K T F T S C																													
	Distalo Distalo Distalo																													
S1C(diglcNAc)-SRIF28	C	A	N	S	N	P	A	M	A	P	R	E	R	K	A	G	C	K	N	F	F	W	K	T	F	T	S	C		
	Distalo																													

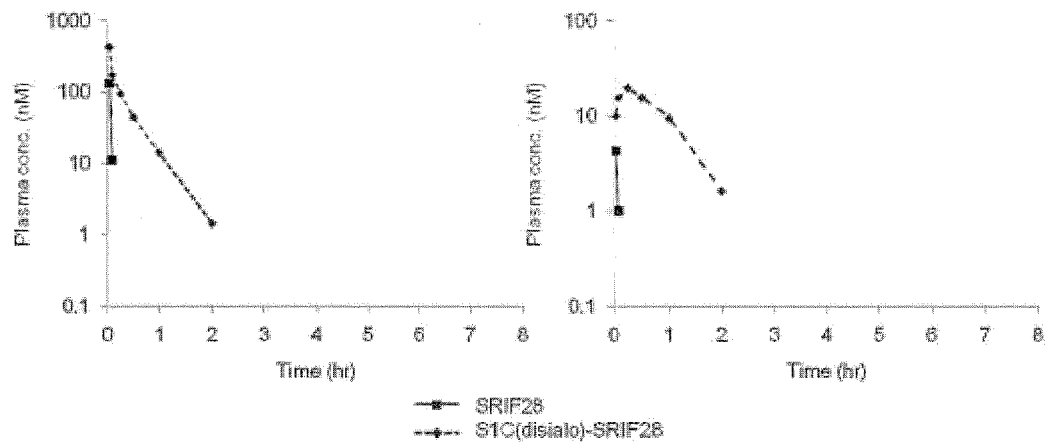
[Figure 1D]

Compound name	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28			
S1C(difMan)-SRIF28	C	A	N	S	N	P	A	M	A	P	R	E	R	K	A	G	C	K	N	F	F	W	K	T	F	T	S	C			
	difMan																														
N19C(difMan)-SRIF28	S	A	N	S	N	P	A	M	A	P	R	E	R	K	A	G	C	K	C	F	F	W	K	T	F	T	S	C			
	difMan																														
S1C(GlcNAc)-SRIF28	C	A	N	S	N	P	A	M	A	P	R	E	R	K	A	G	C	K	N	F	F	W	K	T	F	T	S	C			
	GlcNAc																														
N19C(GlcNAc)-SRIF28	S	A	N	S	N	P	A	M	A	P	R	E	R	K	A	G	C	K	C	F	F	W	K	T	F	T	S	C			
	GlcNAc																														
S1C(trisialo)-SRIF28	C	A	N	S	N	P	A	M	A	P	R	E	R	K	A	G	C	K	N	F	F	W	K	T	F	T	S	C			
	Trisialo																														
S1C(tetrasialo)-SRIF28	C	A	N	S	N	P	A	M	A	P	R	E	R	K	A	G	C	K	N	F	F	W	K	T	F	T	S	C			
	Tetrasialo																														
S1C(disialo(aminoethylamide))-SRIF28	C	A	N	S	N	P	A	M	A	P	R	E	R	K	A	G	C	K	N	F	F	W	K	T	F	T	S	C			
	disialo(aminoethylamide)																														
S1C(disialo(amide))-SRIF28	C	A	N	S	N	P	A	M	A	P	R	E	R	K	A	G	C	K	N	F	F	W	K	T	F	T	S	C			
	disialo(amide)																														
S1C(disialo(Bn))-SRIF28	C	A	N	S	N	P	A	M	A	P	R	E	R	K	A	G	C	K	N	F	F	W	K	T	F	T	S	C			
	disialo(Bn)																														
S1C(disialo(hexadecylamide))-SRIF28	C	A	N	S	N	P	A	M	A	P	R	E	R	K	A	G	C	K	N	F	F	W	K	T	F	T	S	C			
	disialo(hexadecylamide)																														
S1-2C(disialo(amide))-SRIF28	C	C	A	N	S	N	P	A	M	A	P	R	E	R	K	A	G	C	K	N	F	F	W	K	T	F	T	S	C		
	disialo(amide)																														
S1-2C(disialo(Bn))-SRIF28	C	C	A	N	S	N	P	A	M	A	P	R	E	R	K	A	G	C	K	N	F	F	W	K	T	F	T	S	C		
	disialo(Bn)																														
S1C(Asn(disialo))-SRIF28	C	A	N	S	N	P	A	M	A	P	R	E	R	K	A	G	C	K	N	F	F	W	K	T	F	T	S	C			
	Asn(disialo)																														
S1N(disialo)-N19C(difMan)-SRIF28	N	A	N	S	N	P	A	M	A	P	R	E	R	K	A	G	C	K	C	F	F	W	K	T	F	T	S	C			
	Disialo																														
C(disialo(aminoethylamide))-S1C(disialo)-SRIF28	C	C	A	N	S	N	P	A	M	A	P	R	E	R	K	A	G	C	K	N	F	F	W	K	T	F	T	S	C		
	disialo(aminoethylamide) disialo																														
S1-4C(disialo)-SRIF28	C	C	C	C	A	N	S	N	P	A	M	A	P	R	E	R	K	A	G	C	K	N	F	F	W	K	T	F	T	S	C
	disialo																														
Source: PubChem, chemical synthesis																															

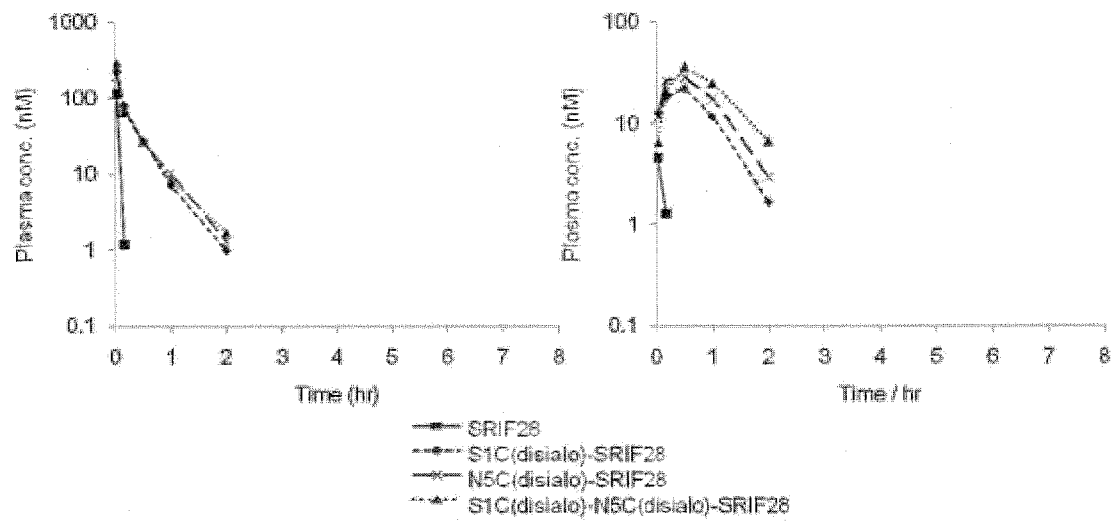
[Figure 1E]



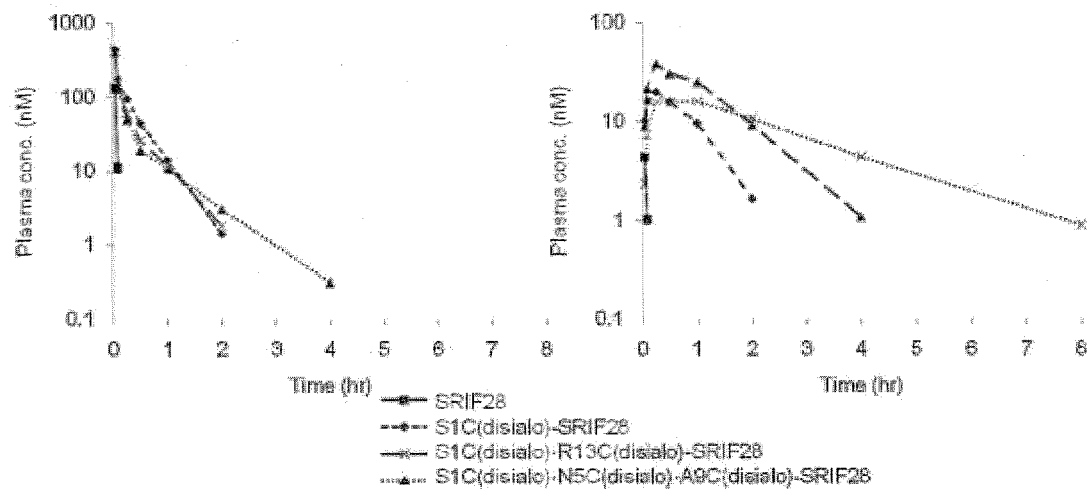
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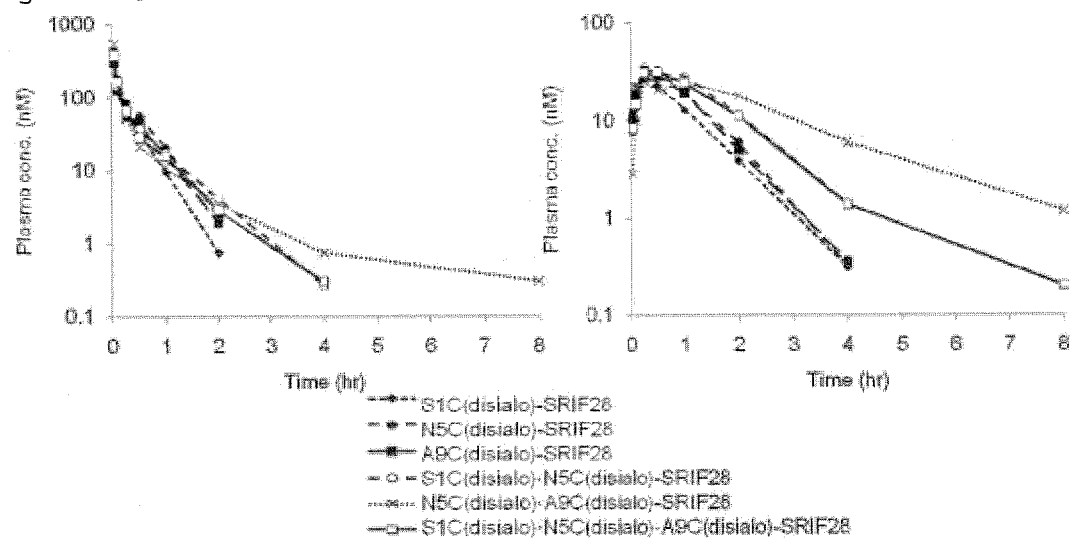
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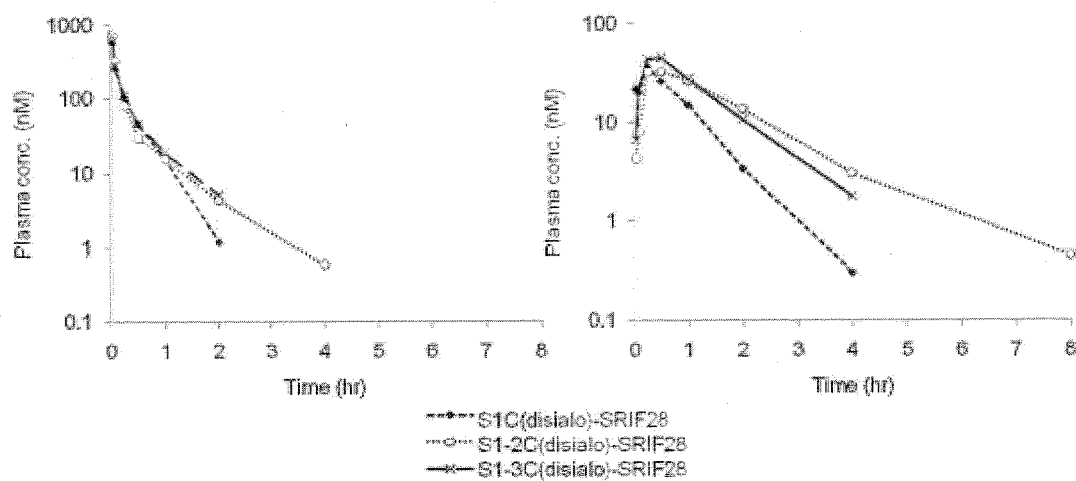
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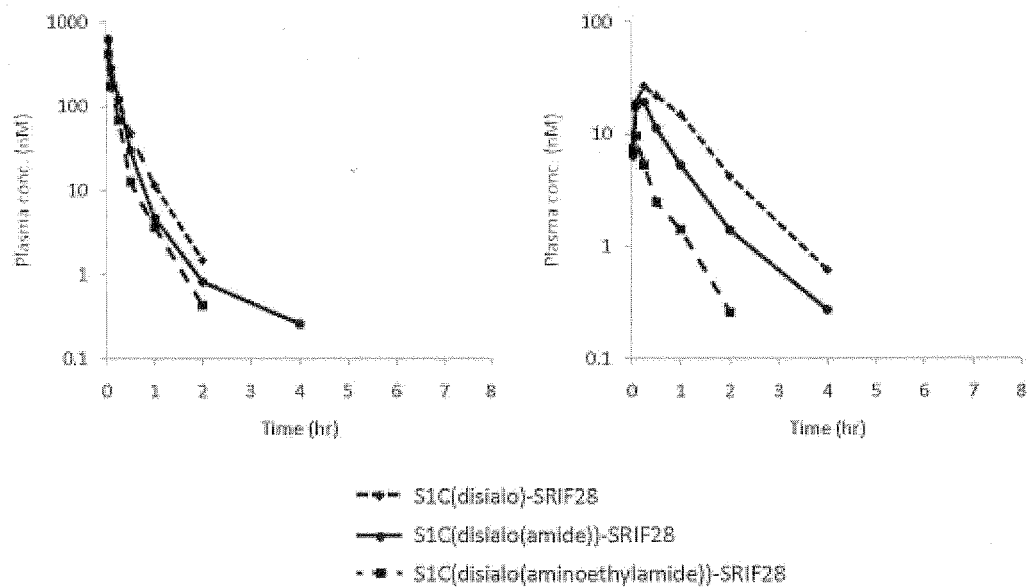
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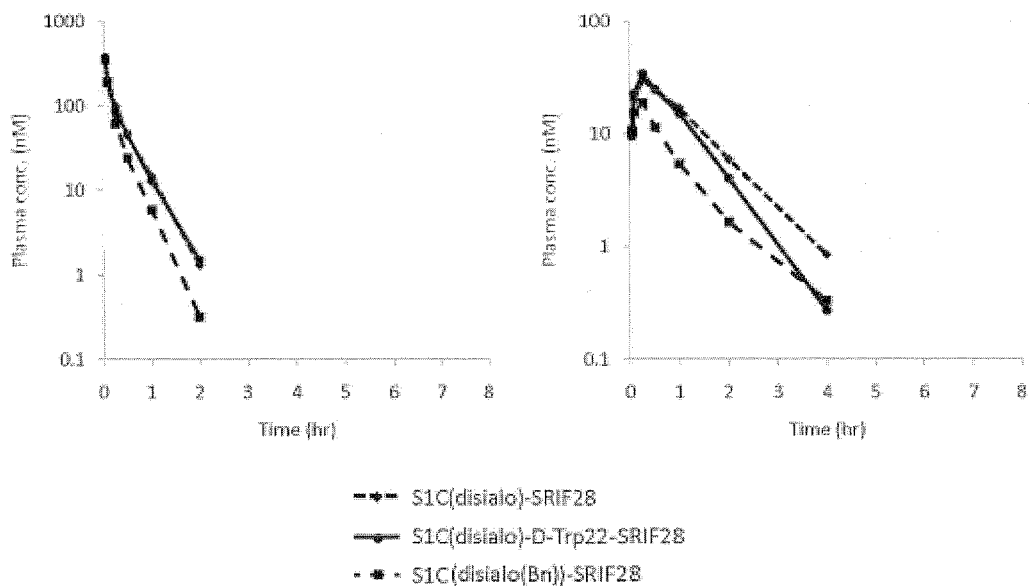
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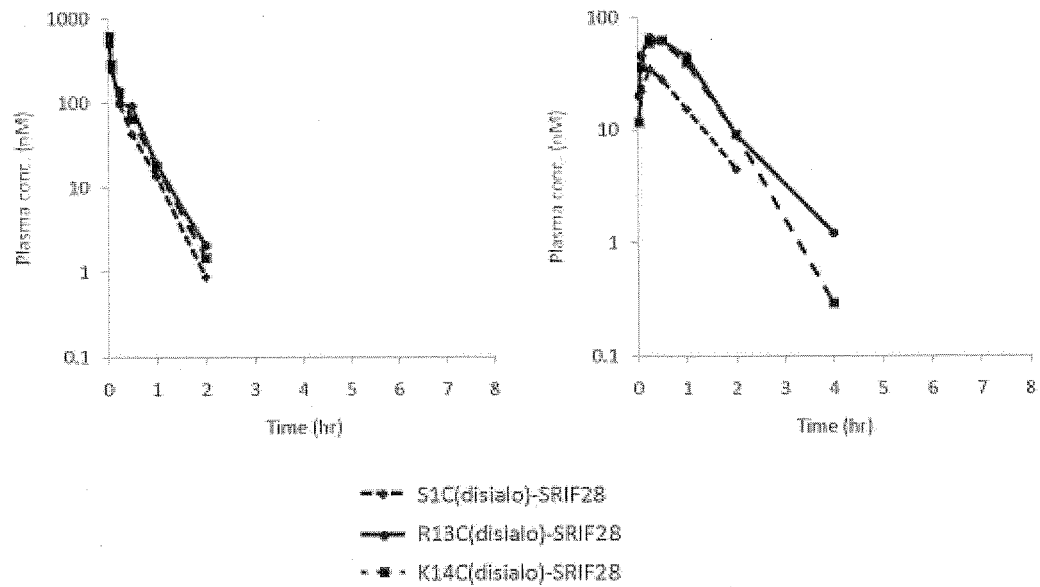
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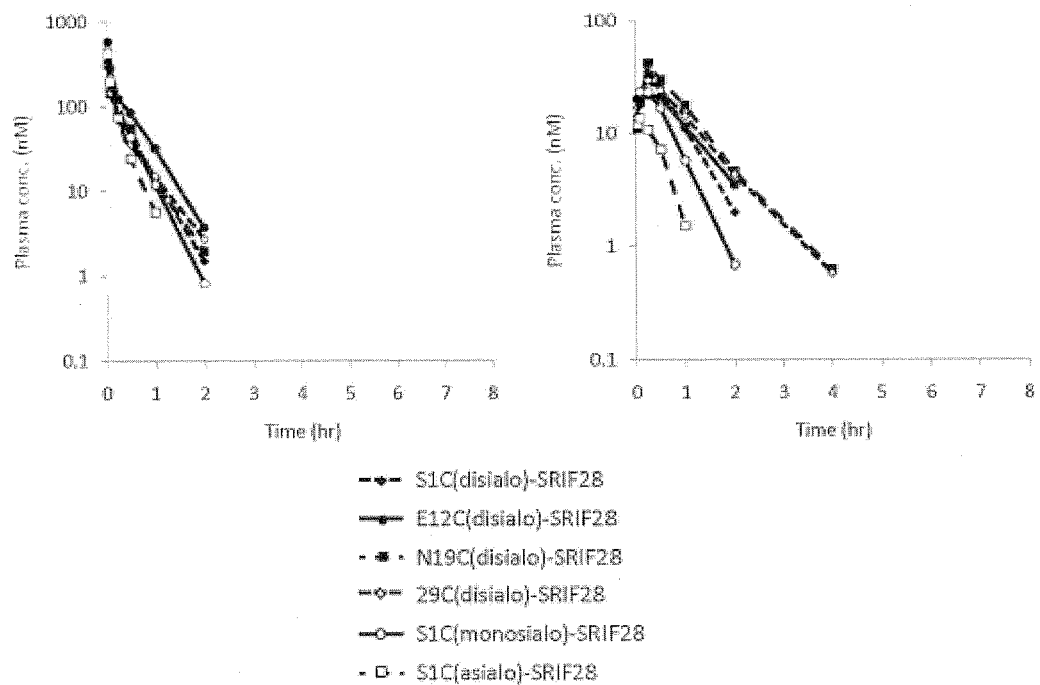
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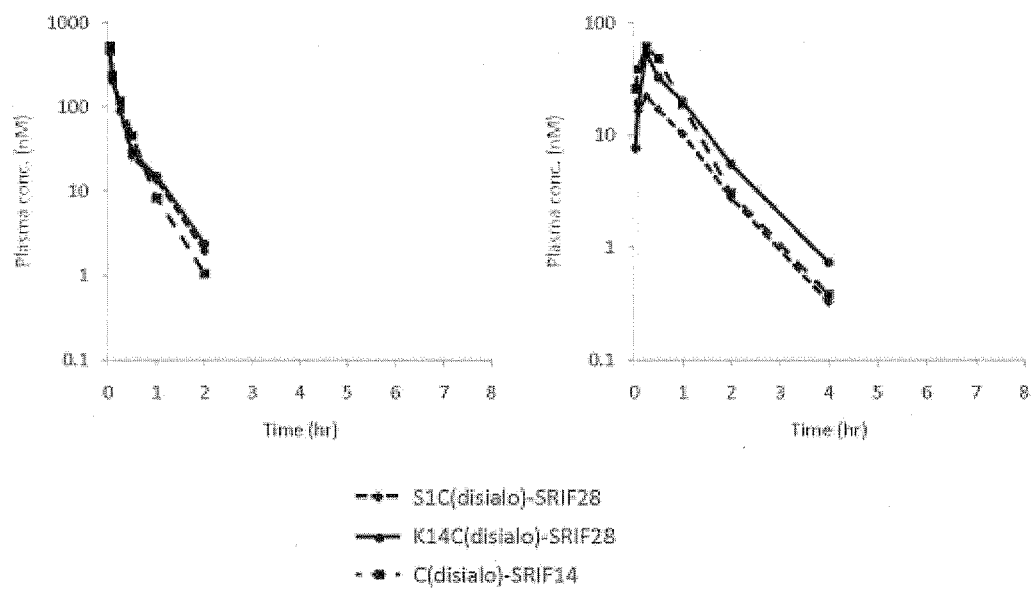
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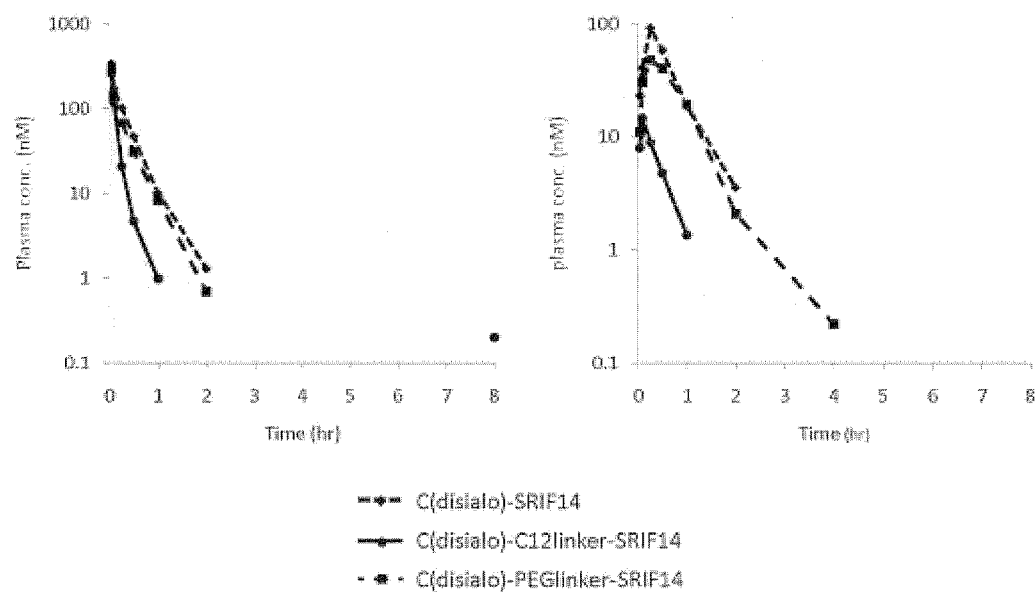
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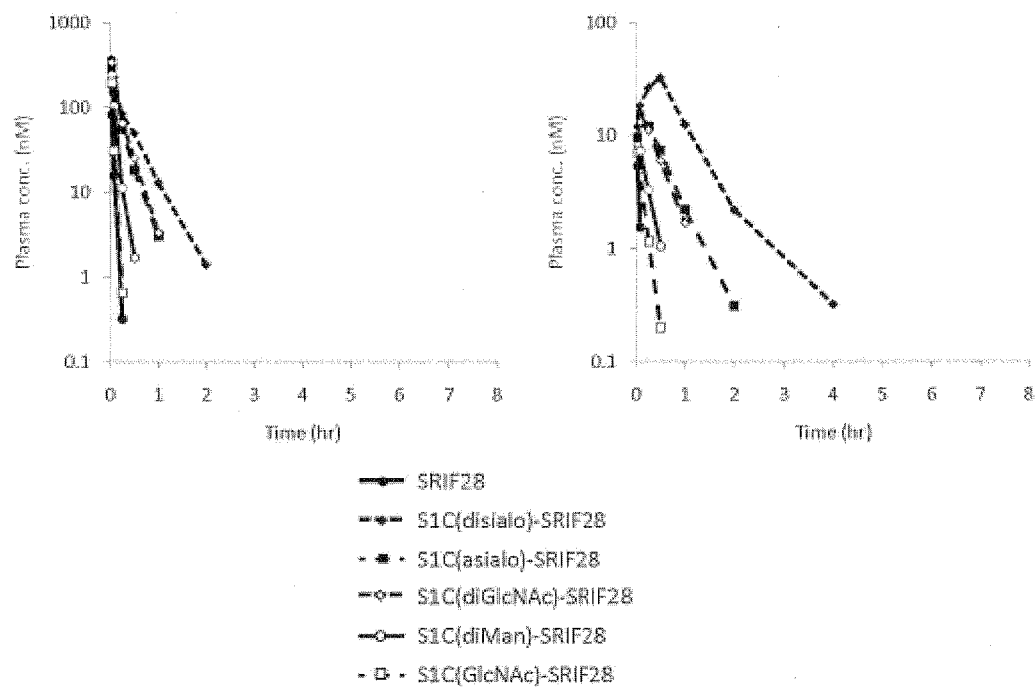
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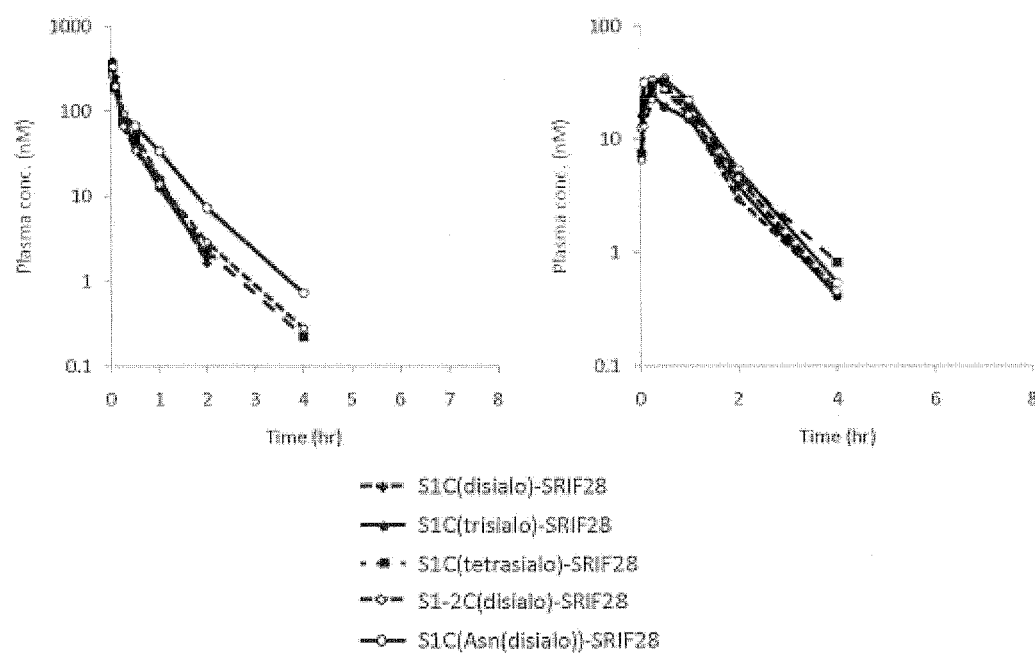
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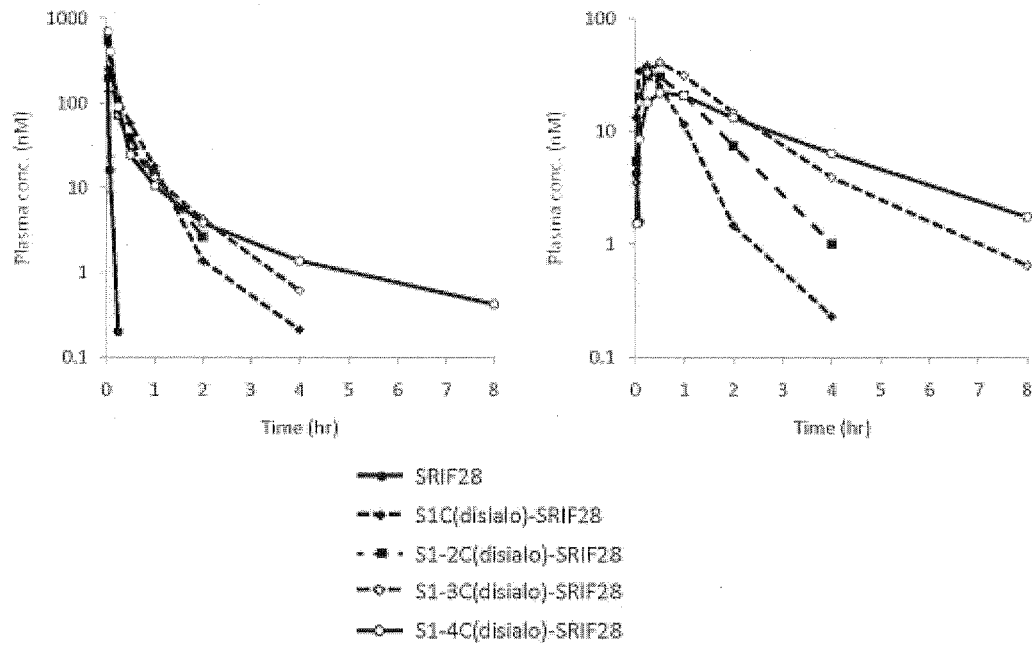
[Figure 13]



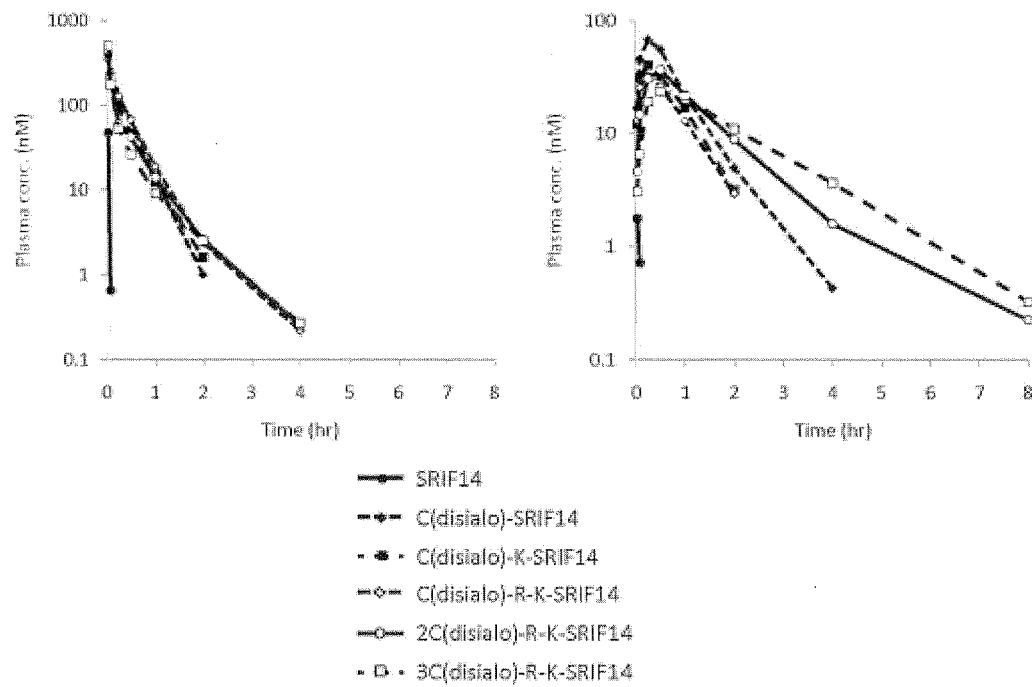
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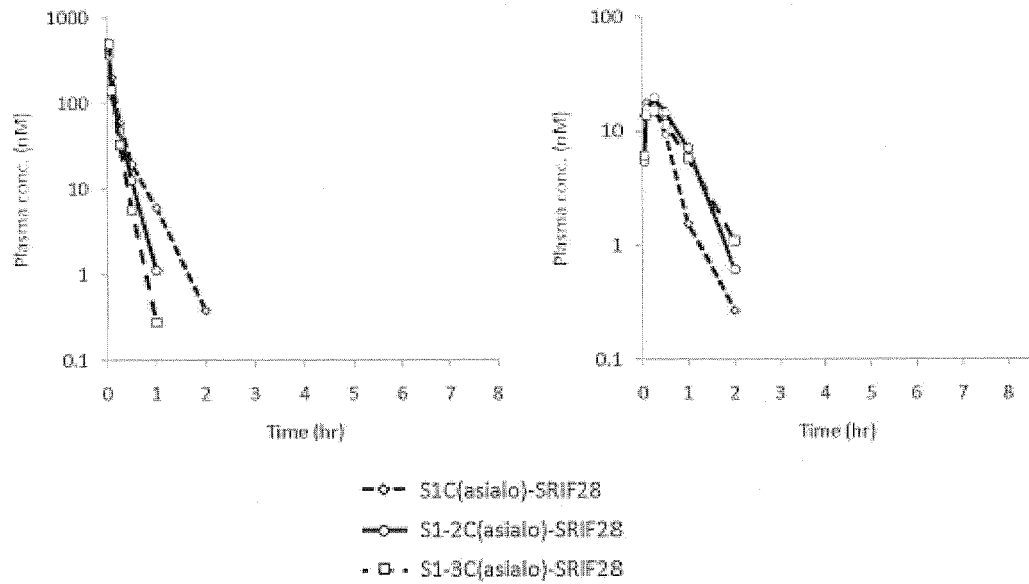
[Figure 15]



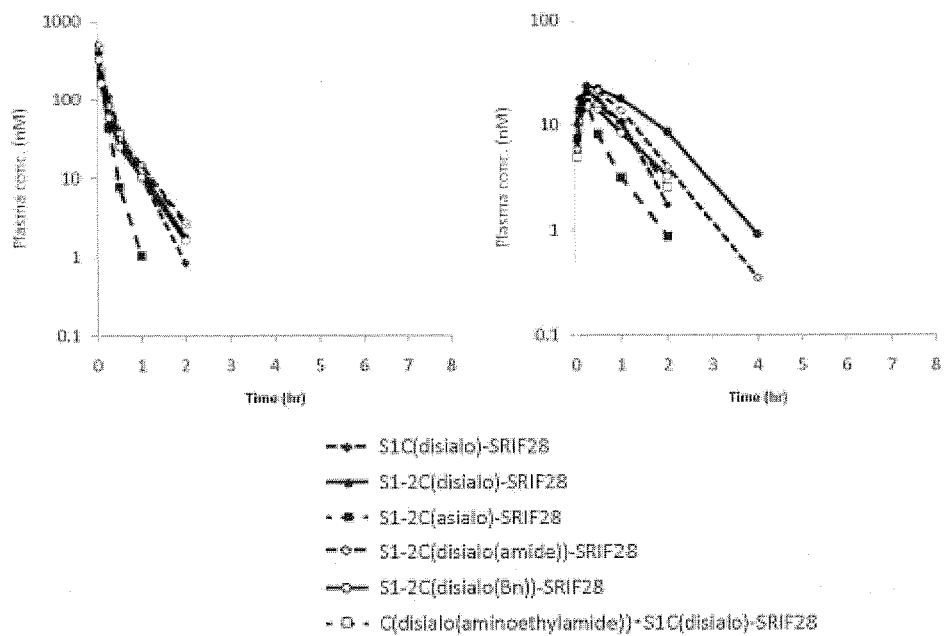
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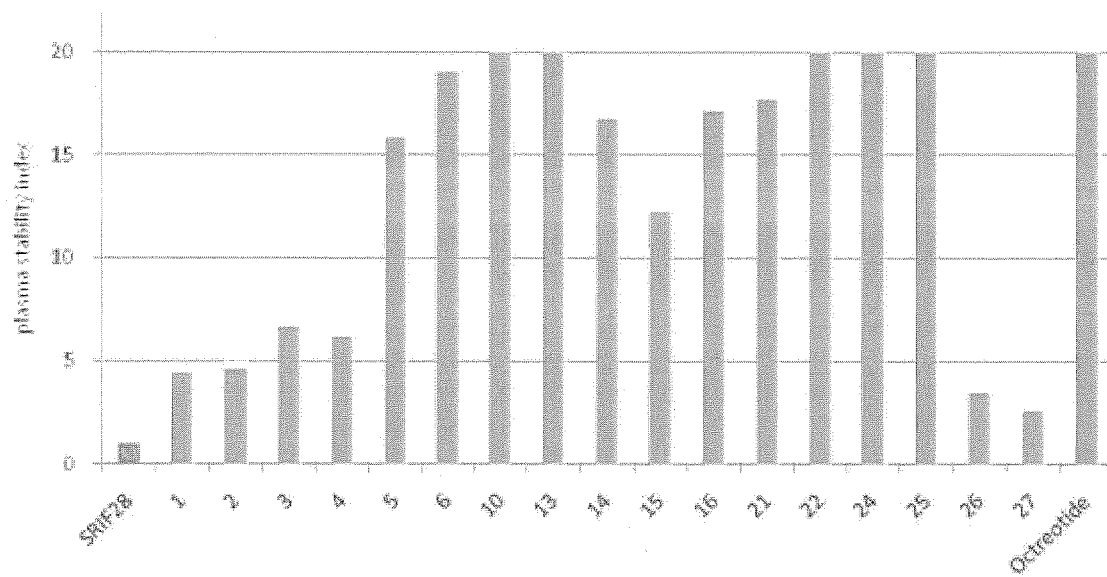
[Figure 17]



[Figure 18]



[Figure 19]



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<130> OCKP1102F

<150> JP2011-192202

<151> 2011-09-04

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<400> 11

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

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<400> 12

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

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

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<223>

<400> 13

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

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

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<222> (17)..(28)

<223>

<400> 14

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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<212> PRT

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<222> (17)..(28)

<223>

<400> 15

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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<400> 16

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> 17

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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<223>

<400> 18

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

<210> 19
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<223> D-Trp

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<400> 19

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

<400> 21

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

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<223>

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<221> CARBOHYD
<222> (5)..(5)
<223> disialo sugar chain added

<400> 22

Cys Ala Asn Ser Cys 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> 23
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<223> disialo sugar chain added

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

<220>
<221> CARBOHYD
<222> (13)..(13)
<223> disialo sugar chain added

<400> 23

Cys Ala Asn Ser Asn Pro Ala Met Ala Pro Arg Glu Cys 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> disialo sugar chain added

<400> 24

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
20 25

<210> 25

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<223>

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<221> CARBOHYD

<222> (2)..(2)

<223> disialo sugar chain added

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<221> CARBOHYD

<222> (3)..(3)

<223> disialo sugar chain added

<400> 25

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> 26

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<222> (1)..(1)

<223> disialo sugar chain added

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<222> (17)..(28)

<223>

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 <223> disialo sugar chain added

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 <222> (9)..(9)
 <223> disialo sugar chain added

<400> 26

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
			20					25			

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 <223>

<400> 27

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> 28
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<220>
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 <223>

<400> 28

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> 29
<211> 29
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<222> (2)..(2)
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<400> 29

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> 30
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<223> asialo sugar chain added

<220>
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 <222> (3)..(3)
 <223> asialo sugar chain added

<400> 30

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> 31
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<400> 31

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> 32
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<400> 32

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> 33
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 <222> (19)..(19)
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<400> 33

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> 34
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<220>
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 <223> diMan sugar chain added

<400> 34

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> 35

<211> 15

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<221> CARBOHYD

<222> (1)..(1)

<223> disialo sugar chain added

<400> 35

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

<210> 36

<211> 17

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<222> (6)..(17)

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<221> CARBOHYD

<222> (1)..(1)

<223> disialo sugar chain added

<400> 36

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

Cys

<210> 37

<211> 15

<212> PRT

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<222> (4)..(15)

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<221> NON_CONS

<222> (1)..(2)

<223> Cys and Ala are bonded through C12linker

<220>

<221> CARBOHYD

<222> (1)..(1)

<223> disialo sugar chain added

<400> 37

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

<210> 38

<211> 28

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<222> (28)..(28)

<223> Acn

<400> 38

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> 39

<211> 28

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<221> BINDING

<222> (28)..(28)

<223> Acn

<400> 39

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> 40

<211> 28

<212> PRT

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<220>

<221> CARBOHYD

<222> (1)..(1)

<223> disialo sugar chain added

<400> 40

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> BINDING

<222> (28)..(28)

<223> Acn

<400> 41

Ser Ala Asn Ser Cys 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

<400> 42

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

<210> 43

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<222> (28)..(28)

<223> Acn

<400> 43

Ser 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

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<400> 44

Ser Ala Asn Ser Asn Pro Ala Met Ala Pro Arg Glu Cys 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> 45

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

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

<210> 46
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<220>

<221> BINDING

<222> (28)..(28)

<223> Acn

<400> 46

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

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

<210> 47

<211> 28

<212> PRT

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<222> (28)..(28)

<223> Acn

<400> 47

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

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

<210> 48

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<400> 48

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

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

<210> 49
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<400> 49

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> 50
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<222> (28)..(28)
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<400> 50

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

<210> 51
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<220>
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<220>
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 <222> (28)..(28)
 <223> Acn

<400> 51

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

<210> 52
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<220>
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 <222> (28)..(28)
 <223> Acn

<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

<210> 53
<211> 30
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<400> 53

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

<210> 54
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<223> D-Trp

<400> 54

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> 55
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<212> PRT
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<222> (22)..(22)
<223> D-Trp

<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

<210> 56
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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

<210> 58
<211> 14
<212> PRT
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<220>
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<223> Boc

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<223> Boc

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<400> 58

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

<400> 59

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

<210> 60
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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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<223> disialo sugar chain added

<400> 61

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

<210> 62
<211> 29
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<222> (29)..(29)

<223> Acn

<400> 62

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> 63

<211> 29

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<223> Acn

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<222> (1)..(1)

<223> disialo sugar chain added

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<221> CARBOHYD

<222> (2)..(2)

<223> disialo sugar chain added

<400> 63

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> 64

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<400> 64

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Gly Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys
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 <223> Acn

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

<210> 66
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<223> AcM

<400> 66

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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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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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Ala Gly Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys
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<223> Acn

<400> 69

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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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 <223> Acn

<400> 71

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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<210> 72
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<223> Acn

<400> 72

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Gly Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys
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<400> 73

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Gly Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys
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<210> 74
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<222> (3)..(3)

<223> asialo sugar chain added

<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
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<210> 75

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<222> (3)..(3)

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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
20 25 30

<210> 76
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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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<223> Trt

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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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<210> 78
<211> 28
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<220>
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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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<222> (5)..(5)
<223> disialo sugar chain protected with benzyl group added

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

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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
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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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<222> (1)..(1)

<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

<211> 28

<212> PRT

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<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

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<211> 28
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Cys 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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<400> 86

Cys 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

<210> 87
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<400> 87

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Cys Lys Cys Phe Phe Trp Lys Thr Phe Thr Ser Cys
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<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

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<400> 89

Cys Ser 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
20 25

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

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<222> (11)..(11)

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<400> 91

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20 25

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<222> (28)..(28)

<223> Acn

<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
20 25

<210> 93

<211> 28

<212> PRT

<213> artificial sequence

<220>

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<222> (17)..(28)

<223>

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<221> CARBOHYD
<222> (20)..(20)
<223> disialo sugar chain added

<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
20 25

<210> 94
<211> 28
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<222> (17)..(17)
<223> Acn

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

<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

<210> 95
<211> 28
<212> PRT
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<220>
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<222> (17)..(28)
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<220>
<221> CARBOHYD
<222> (24)..(24)
<223> disialo sugar chain added

<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

<210> 96
<211> 28
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<222> (28)..(28)
<223> Acn

<400> 96

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> 97
<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> (25)..(25)
<223> disialo sugar chain added

<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
<211> 28
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<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> 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
<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> (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
<211> 16
<212> PRT
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<220>
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<220>
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<222> (5)..(5)
<223> Acn

<220>
<221> BINDING

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

<400> 100

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

<210> 101
<211> 16
<212> PRT
<213> artificial sequence

<220>
<223> chemically synthesized

<220>
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<222> (5)..(16)
<223>

<220>
<221> CARBOHYD
<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
<212> PRT
<213> artificial sequence

<220>
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<220>
<221> BINDING
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<223> Acn

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

<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

<210> 103
<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

<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
<211> 28
<212> PRT
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<220>
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<220>
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<223> Acn

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

<220>
<221> MOD_RES
<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
<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> 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
<211> 15
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<220>
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<220>
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<222> (4)..(4)
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<220>
<221> BINDING
<222> (15)..(15)
<223> Acn

<220>
<221> NON_CONS
<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
<211> 15
<212> PRT
<213> artificial sequence

<220>
<223> chemically synthesized

<220>
<221> DISULFID
<222> (4)..(15)
<223>

<220>
<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
 <212> PRT
 <213> artificial sequence

 <220>
 <223> chemically synthesized

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

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

 <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

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

 <220>
 <221> BINDING
 <222> (14)..(14)
 <223> Boc

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

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

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<221> BINDING
<222> (19)..(19)
<223> Trt

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<223> Boc

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<221> BINDING
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<223> Boc

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

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<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> 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
<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> BINDING
<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
<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> BINDING
<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

<210> 111
<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> BINDING
<222> (1)..(1)
<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
<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 sugar chain added

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

<210> 113
<211> 28
<212> PRT
<213> artificial sequence

<220>
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<220>

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

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

<220>
<221> BINDING
<222> (1)..(1)
<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
<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 sugar chain added

<220>
<221> BINDING
<222> (1)..(1)
<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
<211> 28
<212> PRT
<213> artificial sequence

<220>
<223> chemically synthesized

<220>

<221> BINDING
<222> (17)..(17)
<223> AcM

<220>
<221> BINDING
<222> (28)..(28)
<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
<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> (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
<211> 18
<212> PRT
<213> artificial sequence

<220>
<223> chemically synthesized

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

<220>

<221> BINDING
<222> (18)..(18)
<223> AcM

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

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

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

<220>
<221> CARBOHYD
<222> (2)..(2)
<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
<212> PRT
<213> artificial sequence

<220>
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<220>
<221> BINDING
<222> (8)..(8)
<223> AcM

<220>
<221> BINDING
<222> (19)..(19)
<223> AcM

<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

<212> PRT

<213> artificial sequence

<220>

<223> chemically synthesized

<220>

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<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> 120

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

<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> 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

<212> PRT

<213> artificial sequence

<220>

<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

<213> artificial sequence

<220>

<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

<211> 28

<212> PRT
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<220>
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<220>
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<222> (17)..(28)
<223>

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

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

<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

<210> 126
<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> 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
<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> (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
<212> PRT
<213> artificial sequence

<220>
<223> chemically synthesized

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

<220>
<221> CARBOHYD
<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

<210> 129
 <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> 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>
 <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(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>
 <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> 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>
 <223> chemically synthesized

<220>
<221> DISULFID
<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>
<223> chemically synthesized

<220>
<221> DISULFID
<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>

<221> BINDING

<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>
 <223> chemically synthesized

<220>
 <221> DISULFID
 <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>
 <221> DISULFID
 <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> 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
 <212> PRT
 <213> artificial sequence

<220>
<223> chemically synthesized

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

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

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

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

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

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 <222> (13)..(13)
 <223> Boc

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

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

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

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

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

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<222> (25)..(25)
<223> tBu

<220>
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<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>
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<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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 <223> Acn

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 <223> Boc

<220>
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<220>
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 <222> (22)..(22)
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 <222> (23)..(23)
 <223> Boc

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

<220>
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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>
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<220>
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<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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<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>
 <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> 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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<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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 <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

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

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

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

<220>

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

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

<220>
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 <222> (13)..(13)
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<220>
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 <222> (14)..(14)
 <223> Pbf

<220>
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 <223> Boc

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

<220>
 <221> BINDING
 <222> (19)..(19)
 <223> Boc

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

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 <221> BINDING
 <222> (23)..(23)
 <223> Boc

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 <222> (24)..(24)
 <223> Boc

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 <223> tBu

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

<220>
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 <222> (28)..(28)
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<220>
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 <222> (29)..(29)
 <223> Acn

<220>
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 <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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 <223> StBu

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

<220>
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 <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
 <213> artificial sequence

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

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

<220>
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 <223> Trt

<220>
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 <223> Trt

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 <223> Trt

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

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

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

<220>
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<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

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<223> Boc

<220>
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<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	
Lys	Thr	Phe	Thr
		30	
Ser	Cys		

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

 <220>
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<220>
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 <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>
 <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> 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>
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<220>
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 <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>
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<220>
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 <222> (20)..(31)
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 <222> (1)..(1)
 <223> disialo sugar chain added

<220>
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 <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	