

[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(disialo)-SRIF28	C	A	N	S	N	P	A	M	A	P	R	E	R	K	A	G	C	K	N	F	F	F	W	K	T	F	T	S	C	
	Disialo																													
N5C(disialo)-SRIF28	S	A	N	S	C	P	A	M	A	P	R	E	R	K	A	G	C	K	N	F	F	F	W	K	T	F	T	S	C	
	Disialo																													
A9C(disialo)-SRIF28	S	A	N	S	N	P	A	M	C	P	R	E	R	K	A	G	C	K	N	F	F	F	W	K	T	F	T	S	C	
	Disialo																													
E12C(disialo)-SRIF28	S	A	N	S	N	P	A	M	A	P	R	C	R	K	A	G	C	K	N	F	F	F	W	K	T	F	T	S	C	
	Disialo																													
R13C(disialo)-SRIF28	S	A	N	S	N	P	A	M	A	P	R	E	C	K	A	G	C	K	N	F	F	F	W	K	T	F	T	S	C	
	Disialo																													
K14C(disialo)-SRIF28	S	A	N	S	N	P	A	M	A	P	R	E	R	C	A	G	C	K	N	F	F	F	W	K	T	F	T	S	C	
	Disialo																													
A15C(disialo)-SRIF28	S	A	N	S	N	P	A	M	A	P	R	E	R	K	C	G	C	K	N	F	F	F	W	K	T	F	T	S	C	
	Disialo																													
G16C(disialo)-SRIF28	S	A	N	S	N	P	A	M	A	P	R	E	R	K	A	C	C	K	N	F	F	F	W	K	T	F	T	S	C	
	Disialo																													
K18C(disialo)-SRIF28	S	A	N	S	N	P	A	M	A	P	R	E	R	K	A	G	C	C	N	F	F	F	W	K	T	F	T	S	C	
	Disialo																													
N19C(disialo)-SRIF28	S	A	N	S	N	P	A	M	A	P	R	E	R	K	A	G	C	K	C	F	F	F	W	K	T	F	T	S	C	
	Disialo																													
F21C(disialo)-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		
	Disialo																													
T26C(disialo)-SRIF28	S	A	N	S	N	P	A	M	A	P	R	E	R	K	A	G	C	K	N	F	F	F	W	K	T	F	C	S	C	
	Disialo																													
29C(disialo)-SRIF28	S	A	N	S	N	P	A	M	A	P	R	E	R	K	A	G	C	K	N	F	F	F	W	K	T	F	T	S	C	C
	Disialo																													
30C(disialo)-SRIF28	S	A	N	S	N	P	A	M	A	P	R	E	R	K	A	G	C	K	N	F	F	F	W	K	T	F	T	S	C	C
	Disialo																													
S1C(disialo)-D-Trp22-SRIF28	C	A	N	S	N	P	A	M	A	P	R	E	R	K	A	G	C	K	N	F	F	F	W	K	T	F	T	S	C	
	Disialo																													
A9C(disialo)-D-Trp22-SRIF28	S	A	N	S	N	P	A	M	C	P	R	E	R	K	A	G	C	K	N	F	F	F	W	K	T	F	T	S	C	
	Disialo																													
C(disialo)-SRIF14	C	A	N	S	N	P	A	M	A	P	R	E	R	K	A	G	C	K	N	F	F	F	W	K	T	F	T	S	C	
	Disialo																													

[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(dialo)-R-K-SRIF14	C R K A G C K N F F W K T F T S C Dialo S-S																											
C(dialo)-C12linker-SRIF14	C C12 A G C K N F F W K T F T S C Dialo Linker S-S																											
S1-2C(dialo)-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 Dialo Dialo S-S																											
S1C(dialo) · N5C(dialo)-SRIF28	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 Dialo Dialo S-S																											
S1C(dialo) · R13C(dialo)-SRIF28	C 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 Dialo Dialo S-S																											
N5C(dialo) · A9C(dialo)-SRIF28	S A N 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 Dialo Dialo S-S																											
S1-3C(dialo)-SRIF28	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 Dialo Dialo Dialo S-S																											
S1C(dialo) · N5C(dialo) · A9C(dialo)-SRIF28	C A N 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 Dialo Dialo Dialo S-S																											
S1C(monosialo)-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 Monosialo S-S																											
S1C(asialo)-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 Asialo S-S																											
S1-2C(asialo)-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 Asialo Asialo S-S																											
S1-3C(asialo)-SRIF28	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 S-S																											
N5N(dialo)-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 Dialo S-S																											
S1N(dialo)-SRIF28	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 Dialo S-S																											
S1C(dialo) · N19C(GlcNAc)-SRIF28	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 Dialo S-S GlcNAc																											
S1C(dialo) · N19C(difMan)-SRIF28	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 Dialo S-S difMan																											
S1-5C(dialo)-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 Dialo Dialo Dialo Dialo S-S																											
S1-10C(dialo)-SRIF28	C C 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 Dialo Dialo Dialo Dialo Dialo Dialo Dialo S-S																											

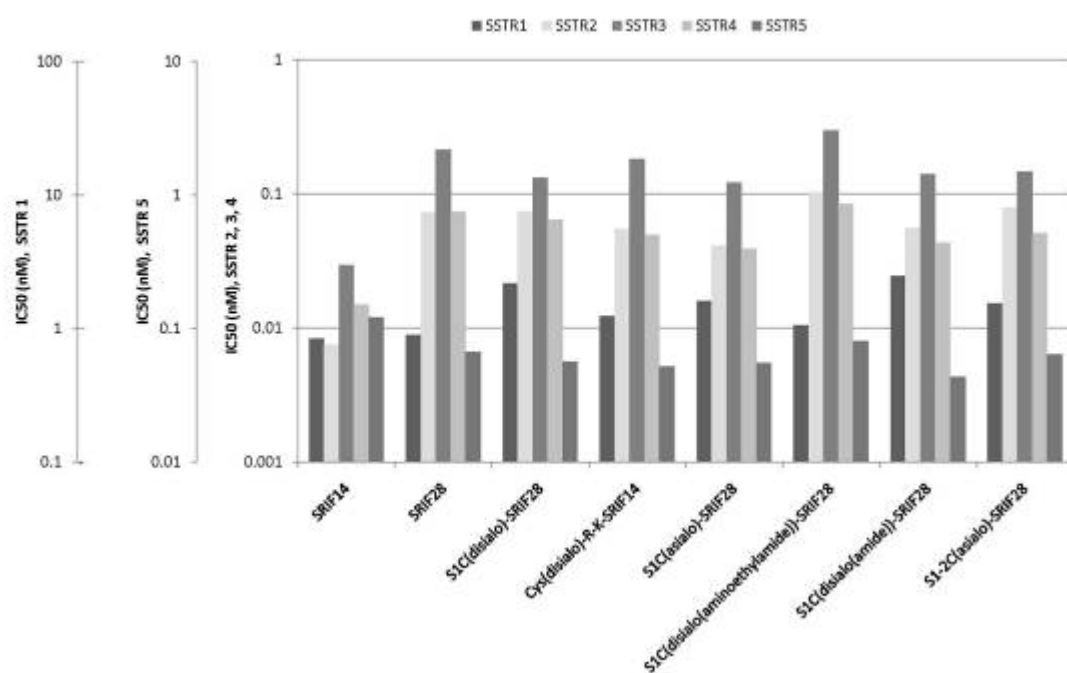
[Figure 1C]

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
	Disialo	S-S																											
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	
	Disialo	S-S																											
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	
	Disialo	S-S																											
T24C(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	
	Disialo	S-S																											
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	
	Disialo	S-S																											
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	
	Disialo	S-S																											
C(distalo)-K-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	
	Disialo	S-S																											
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	
	Disialo	S-S																											
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	
	Disialo	S-S																											
C(distalo)-PEGlinker-SRIF14	C	P	E	G	A	G	C	K	N	F	F	W	K	T	F	T	S	C											
	Disialo	S-S																											
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
	Disialo	S-S																											
Biotin-PEGlinker-S1C(distalo)-SRIF28	Biotin	P	E	G	C	K	N	F	F	W	K	T	F	T	S	C													
	Linker	Disialo	S-S																										
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
	Disialo	S-S																											
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	
	Disialo	S-S																											
2C(distalo)-R-K-SRIF14	C	C	R	K	A	G	C	K	N	F	F	W	K	T	F	T	S	C											
	Disialo	S-S																											
3C(distalo)-R-K-SRIF14	C	C	C	R	K	A	G	C	K	N	F	F	W	K	T	F	T	S	C										
	Disialo	S-S																											
S1C(d(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	
	di(GlcNAc)	S-S																											

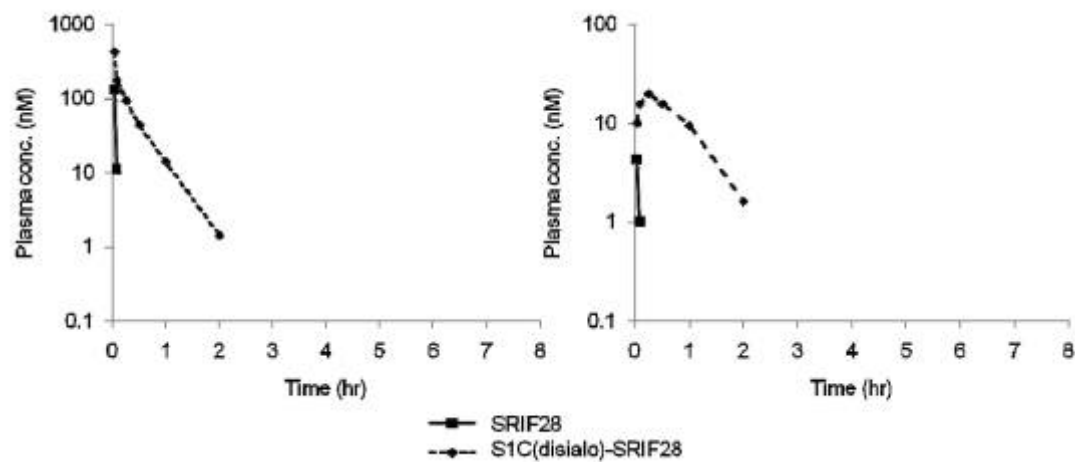
[Figure 1D]

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(dlMan)-SRIF28	dlMan S-S 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 S-S																											
N19C(dlMan)-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																											
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 S-S dlMan																											
N19C(GlcNAc)-SRIF28	GlcNAc 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 S-S																											
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 S-S GlcNAc																											
S1C(tetrasialo)-SRIF28	Trisialo 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 S-S																											
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 S-S 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 S-S 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 S-S 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 S-S 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 S-S 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 S-S disialo(Bn)																											
S1N(disialo)-N19C(dlMan)-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 S-S Asn(disialo)																											
C(disialo(aminoethylamide))-S1C(disialo)-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 S-S Disialo																											
S1-4C(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 S-S disialo(aminoethylamide)																											
	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 S-S Disialo Disialo Disialo Disialo																											

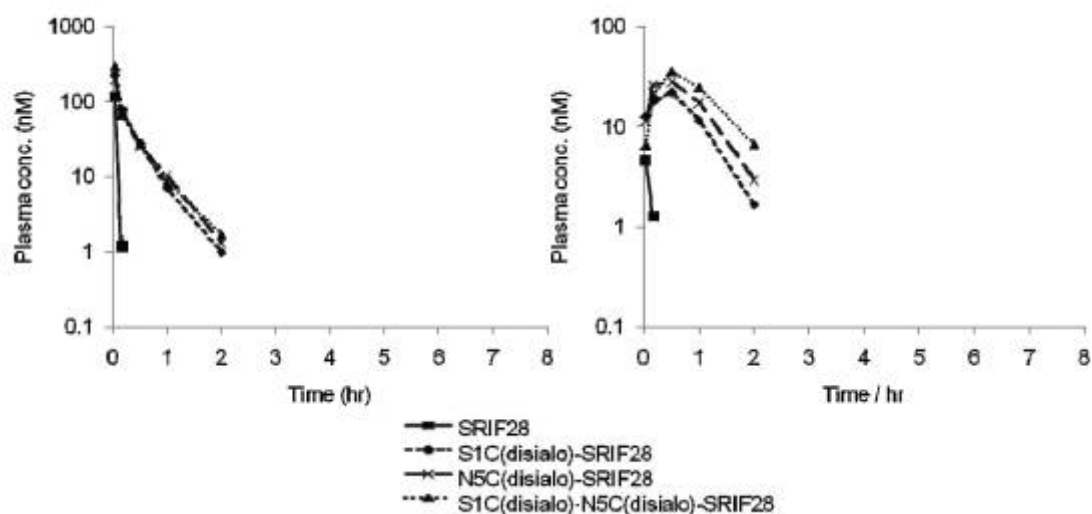
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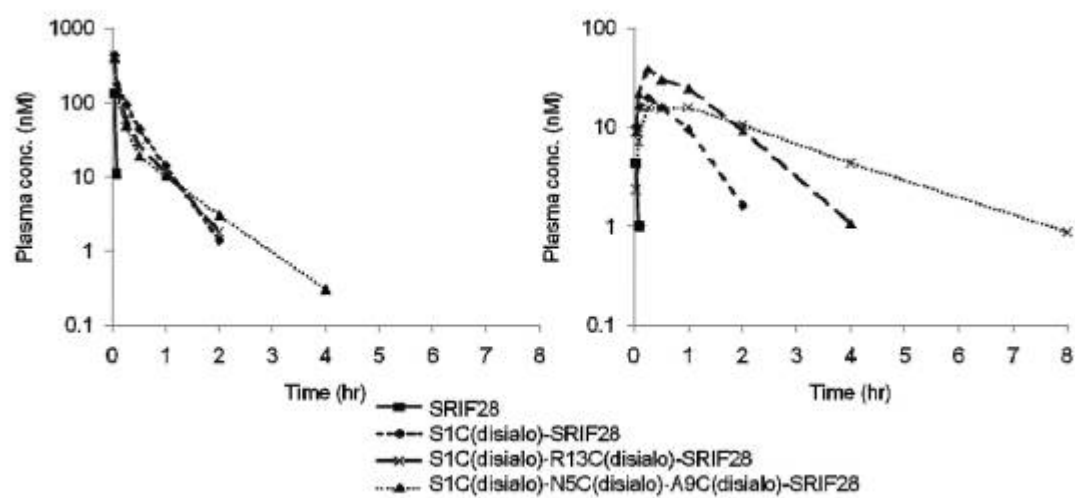
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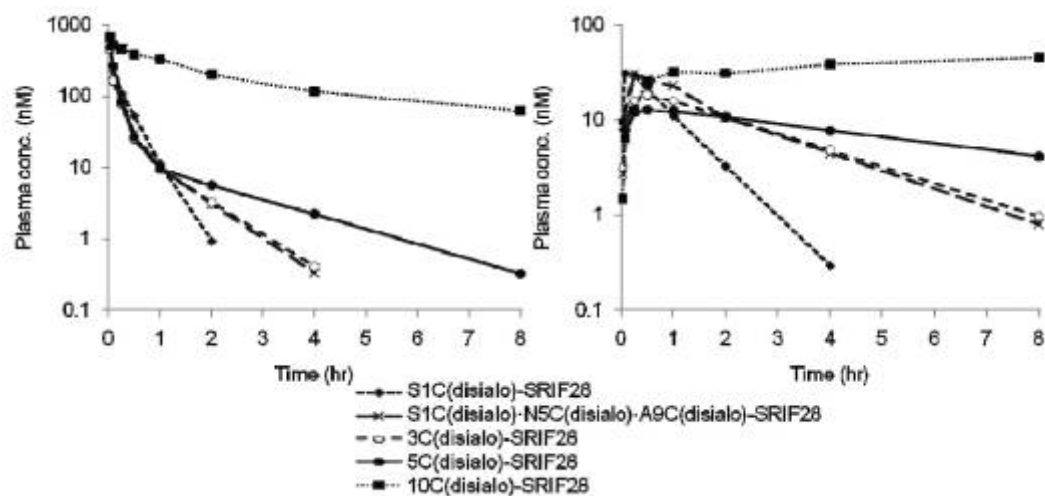
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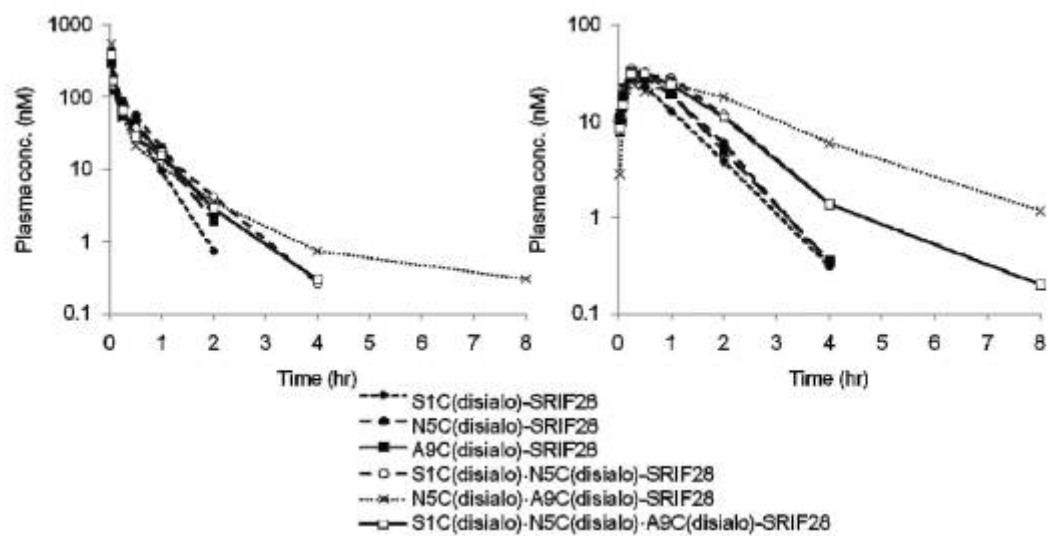
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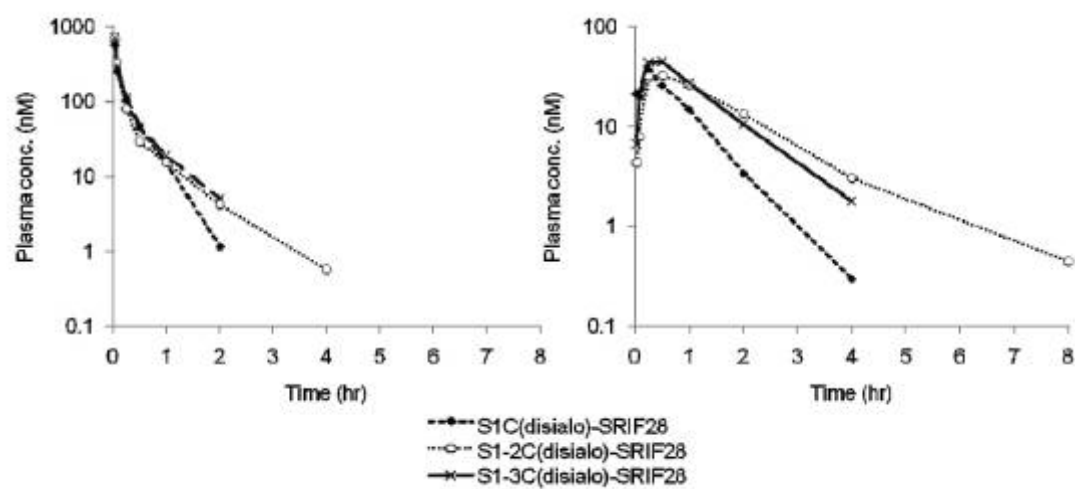
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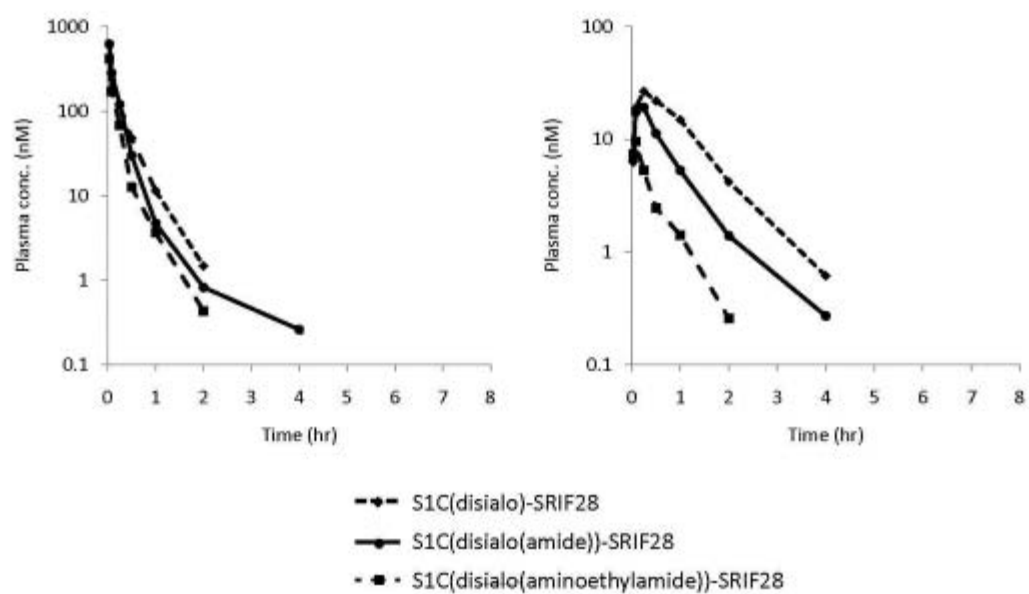
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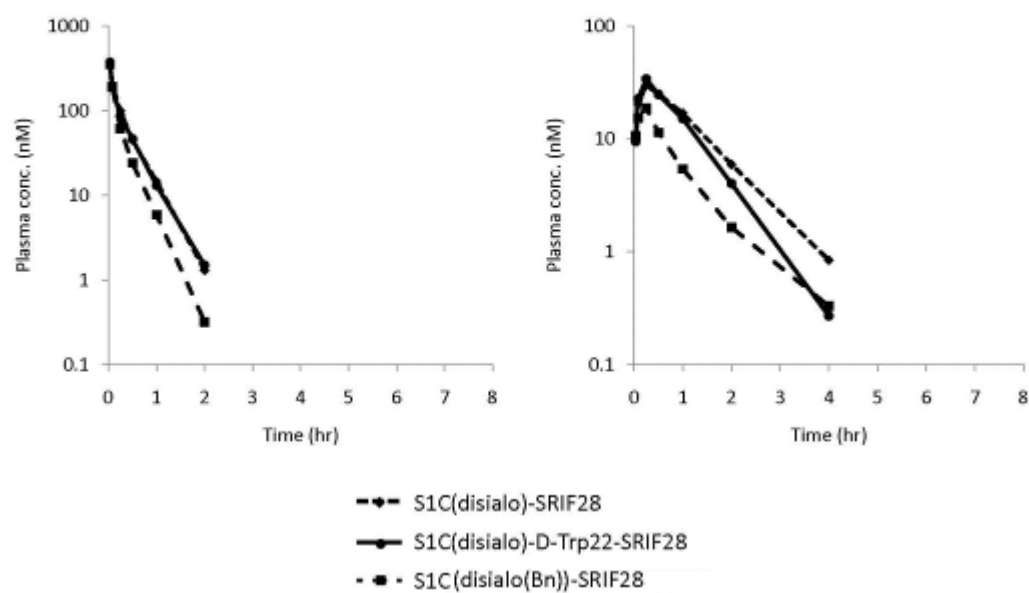
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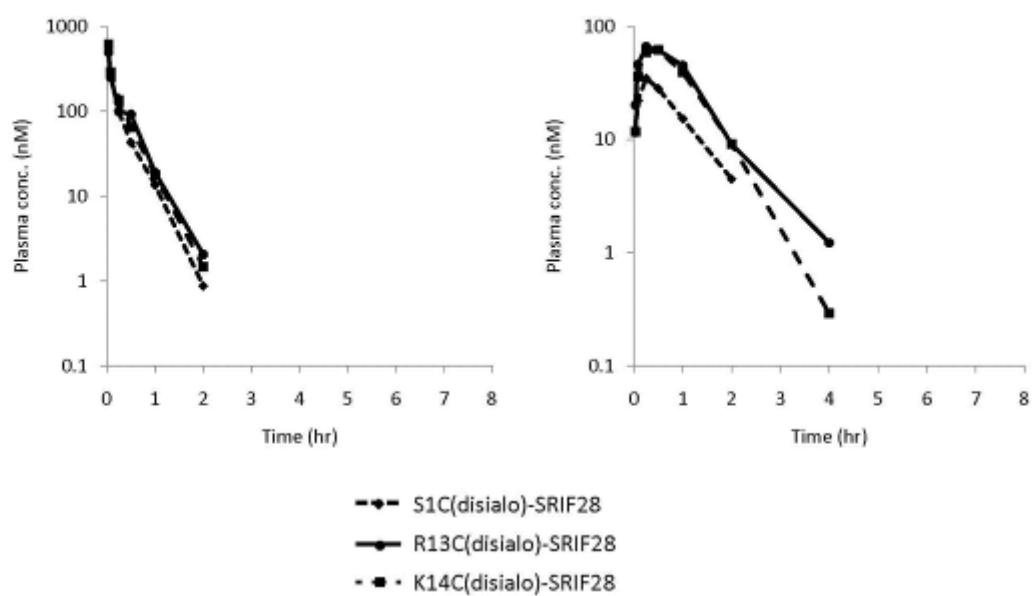
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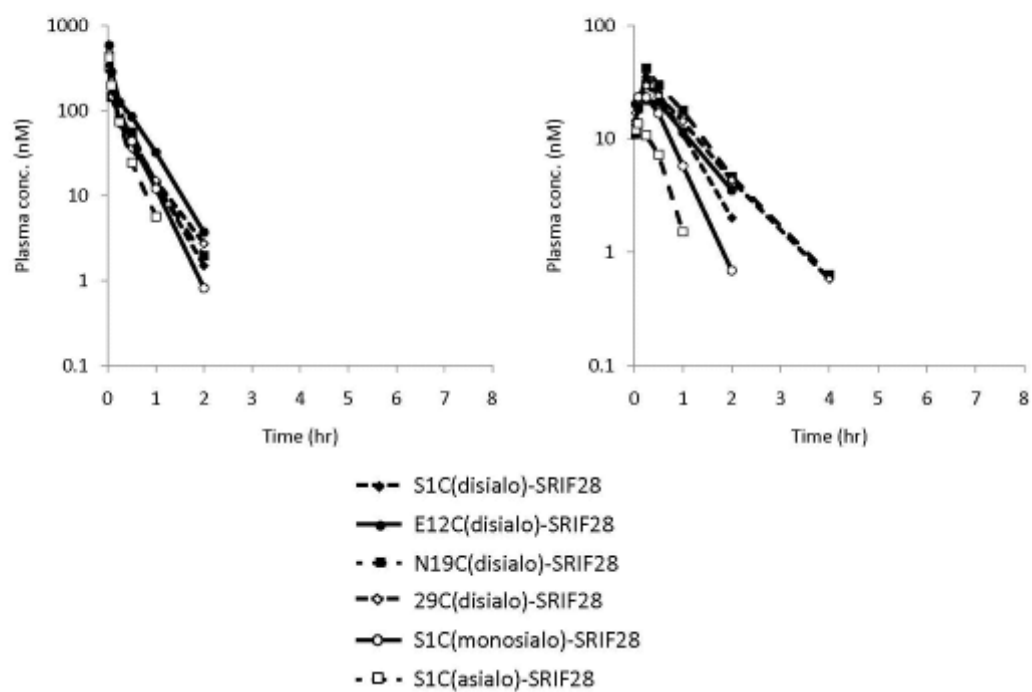
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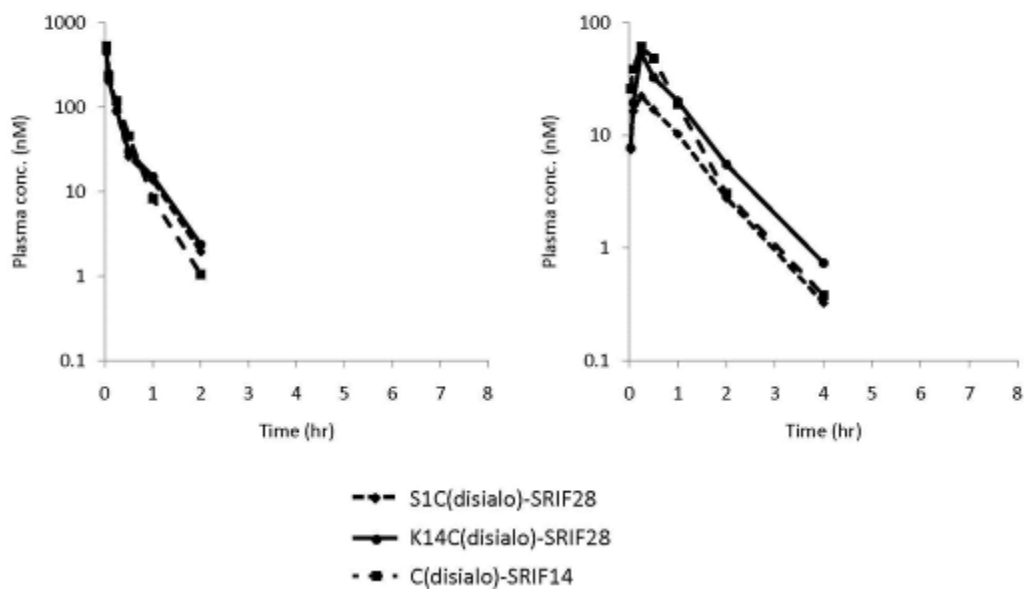
[Figure 10]



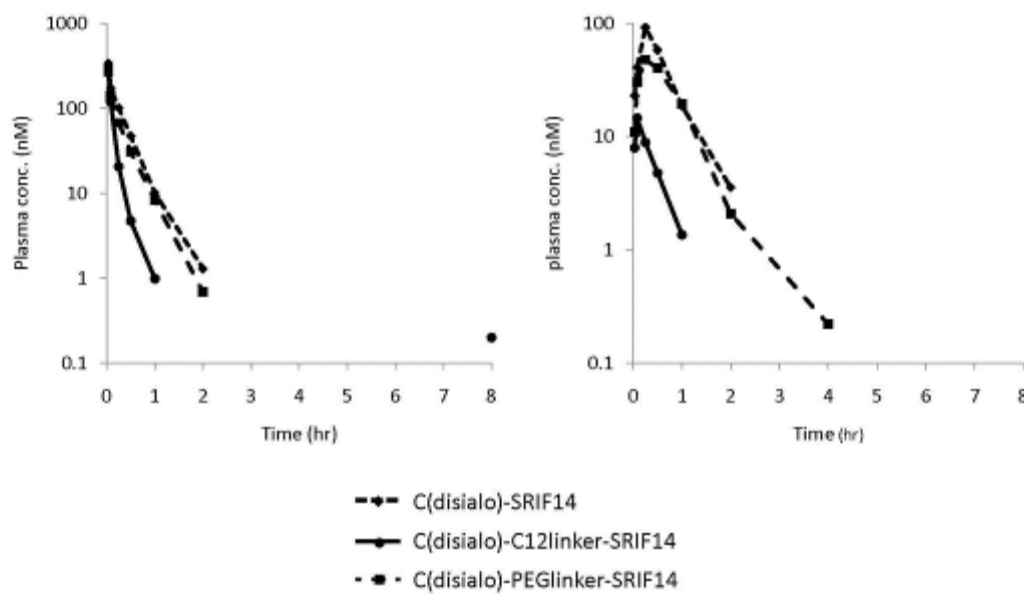
[Figure 11]



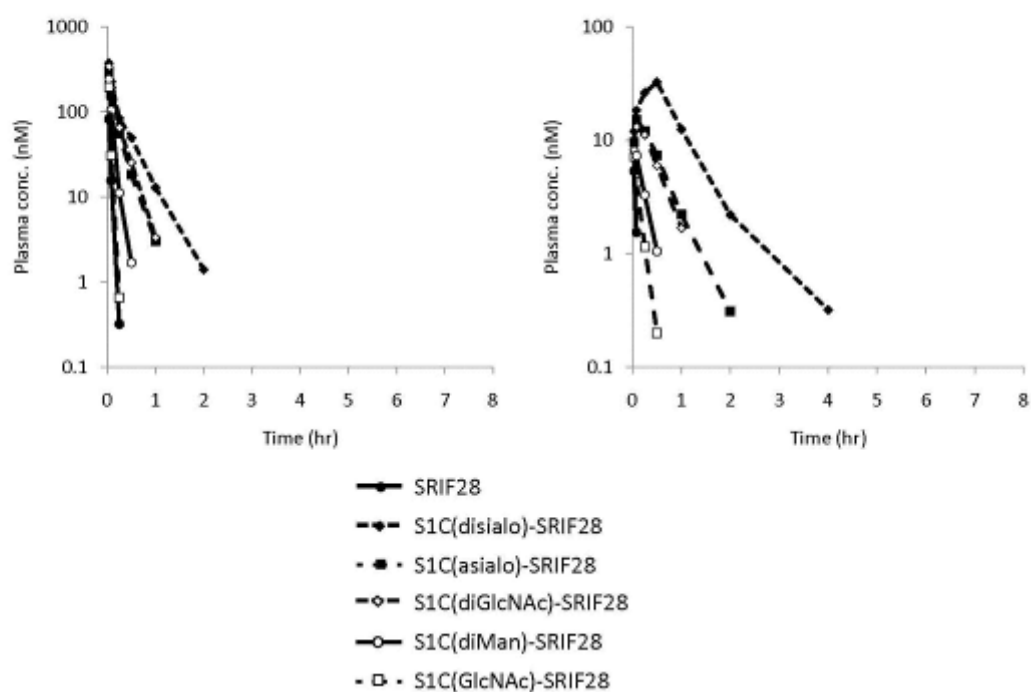
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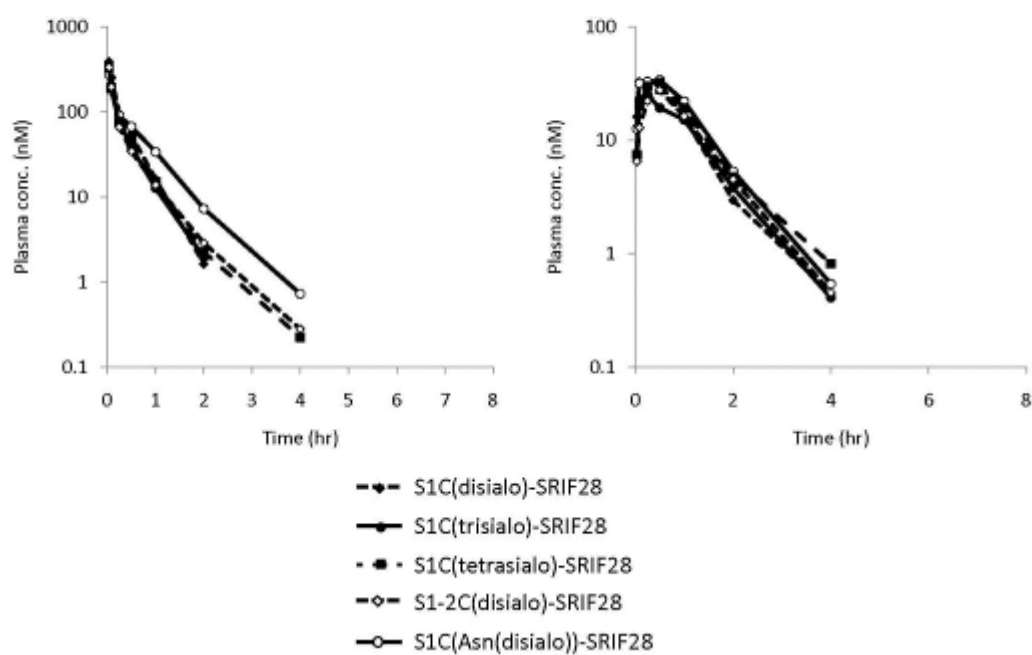
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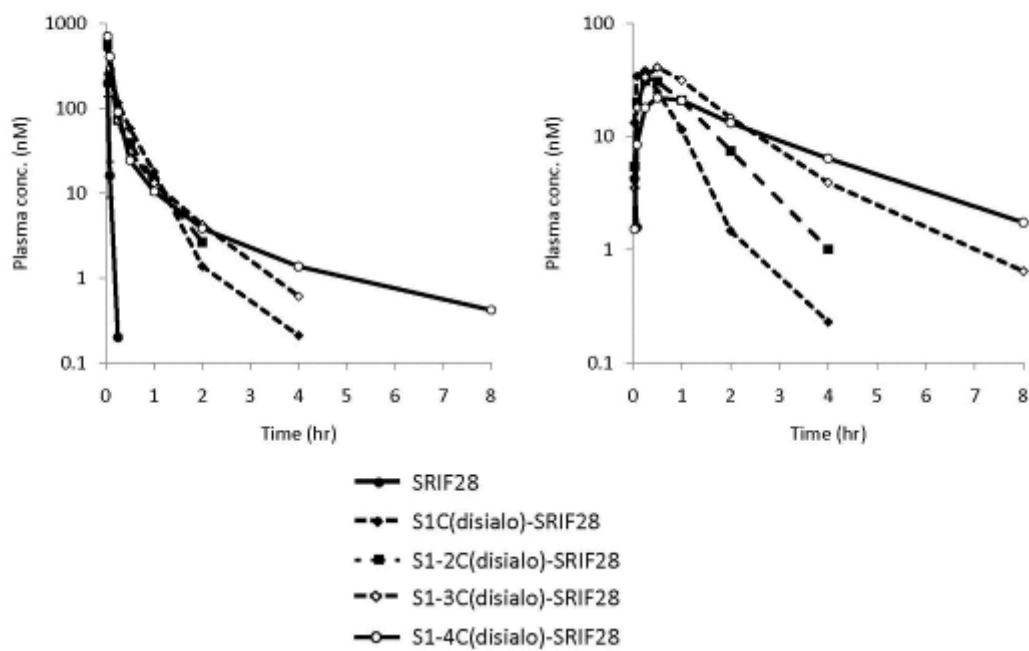
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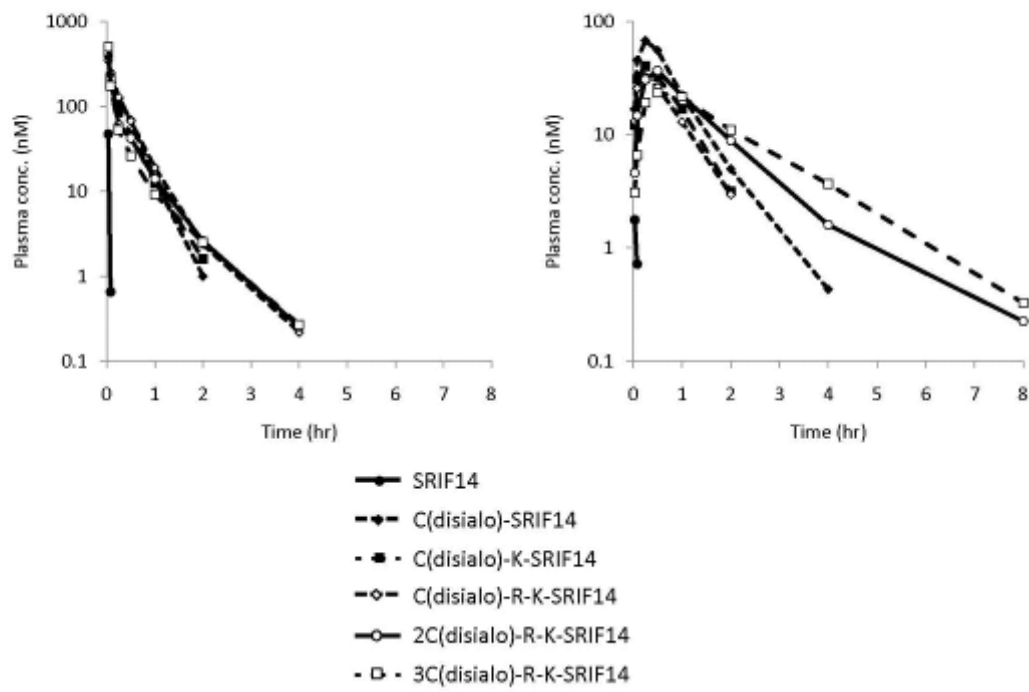
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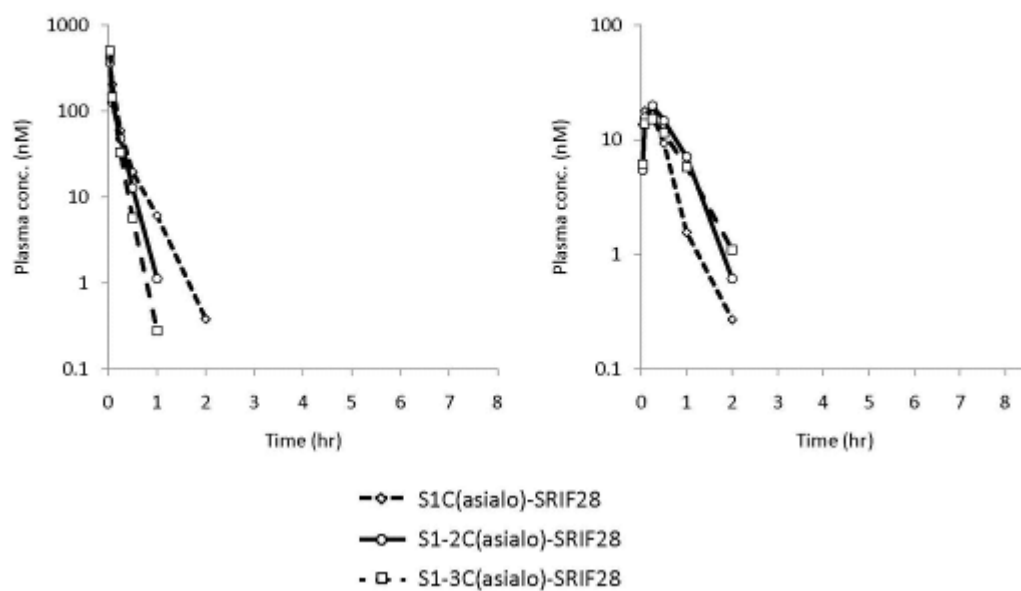
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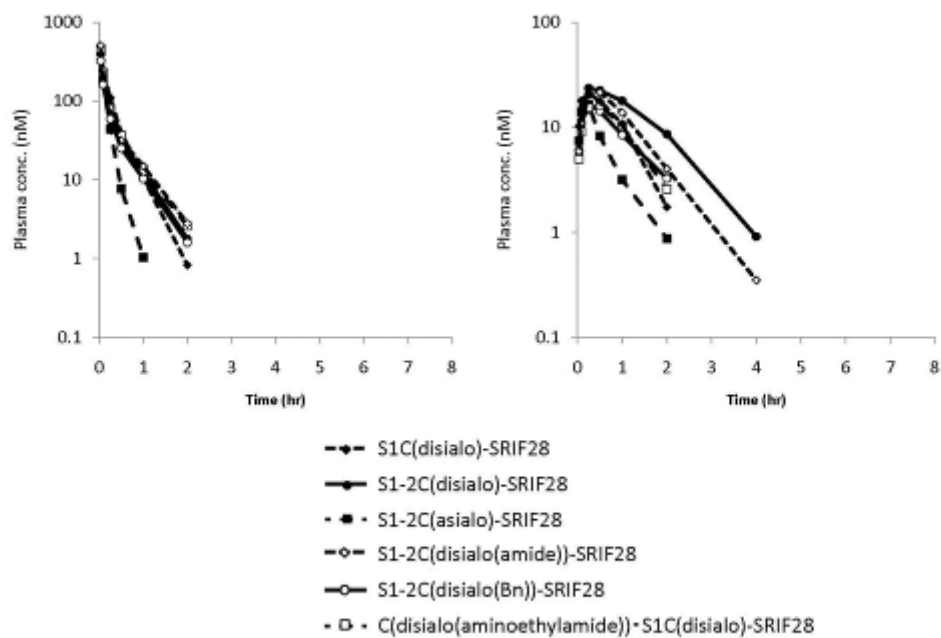
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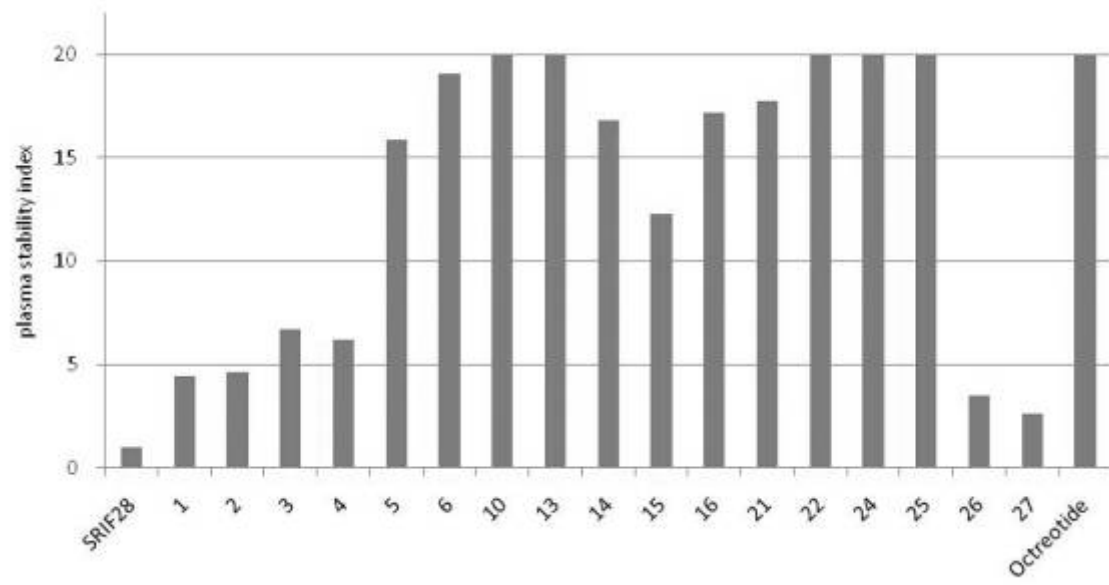
[Figure 18]



[Figure 19]



[Figure 20]



SEQUENCE LISTING

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<130> SG4476A

<150> JP2011-192203

<151> 2011-09-04

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20 25

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20 25

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 1 5 10 15

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

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

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

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1 5 10 15

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

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<223>

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1 5 10 15

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

<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
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 <223>

<400> 18

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

<210> 19
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<400> 19

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 1 5 10 15

Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys
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Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys
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<400> 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
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<220>
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<221> CARBOHYD
 <222> (5)..(5)
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<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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 <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
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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

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<222> (2)..(2)

<223> disialo sugar chain added

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<222> (3)..(3)

<223> disialo sugar chain added

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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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 1 5 10 15

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

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<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

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

<223> asialo sugar chain added

<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

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 <222> (3)..(3)
 <223> asialo suger chain added

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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
 20 25 30

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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

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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
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<222> (1)..(1)

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<222> (19)..(19)

<223> GlcNAc added

<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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<223> disialo sugar chain added

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<222> (19)..(19)

<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

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<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

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<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

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<223> Cys and Ala are bonded through C12linker

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<400> 37

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

<210> 38
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<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

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<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
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<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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<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

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<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

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25

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

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<223> Acn

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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

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1 5 10 15

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

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

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1 5 10 15

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

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1 5 10 15

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

<210> 51
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<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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<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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Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys Thr Cys
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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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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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<223> Acn

<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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<400> 58

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

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<400> 60

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<210> 61

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<223> disialo sugar chain added

<400> 61

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<210> 62

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<400> 62

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1 5 10 15

Gly Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys
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<210> 63
<211> 29
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<223> disialo sugar chain added

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

<400> 63

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1 5 10 15

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

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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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1 5 10 15

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

<400> 66

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1 5 10 15

Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys
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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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Cys Cys Cys Ala Asn Ser Asn Pro Ala Met Ala Pro Arg Glu Arg Lys
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Ala Gly Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys
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Cys Cys Cys Ala Asn Ser Asn Pro Ala Met Ala Pro Arg Glu Arg Lys
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<400> 71

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

<400> 72

Cys Cys Ala Asn Ser Asn Pro Ala Met Ala Pro Arg Glu Arg Lys Ala
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Gly Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys
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<210> 73

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<210> 74

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<400> 74

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Ala	Gly	Cys	Lys	Asn	Phe	Phe	Trp	Lys	Thr	Phe	Thr	Ser	Cys
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Cys Cys Cys Ala Asn Ser Asn Pro Ala Met Ala Pro Arg Glu Arg Lys
 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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<222> (23)..(23)

<223> Trt

<220>

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Pro Ala Met Ala Pro Arg Glu Arg Lys Ala Gly Cys Lys Asn Phe Phe
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Trp Lys Thr Phe Thr Ser Cys
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<210> 77

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<222> (24)..(24)
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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
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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
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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
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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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<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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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> 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
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<210> 84
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<400> 84

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
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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 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
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<210> 87
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Cys Lys Cys Phe Phe Trp Lys Thr Phe Thr Ser Cys
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 <222> (10)..(10)
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<400> 89

Cys Cys Cys Cys Cys Cys Cys Cys Cys Cys Ala Asn Ser Asn Pro Ala
 1 5 10 15

Met Ala Pro Arg Glu Arg Lys Ala Gly Cys Lys Asn Phe Phe Trp Lys
 20 25 30

Thr Phe Thr Ser Cys
 35

<210> 90
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 <223> Acn

<400> 90

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

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

<210> 91
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<400> 91

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Arg Lys Ala Gly Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys

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25

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<400> 92

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

<210> 93
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<223> Acn

<400> 93

Cys Cys Cys Cys Cys Cys Cys Cys Cys Cys Ala Asn Ser Asn Pro Ala
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Met Ala Pro Arg Glu Arg Lys Ala Gly Cys Lys Asn Phe Phe Trp Lys
20 25 30

Thr Phe Thr Ser Cys
35

<210> 94

<211> 37

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<400> 94

Cys Cys Cys Cys Cys Cys Cys Cys Cys Cys Ala Asn Ser Asn Pro Ala
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Met Ala Pro Arg Glu Arg Lys Ala Gly Cys Lys Asn Phe Phe Trp Lys
 20 25 30

Thr Phe Thr Ser Cys
 35

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<400> 95

Cys Cys Cys Cys Cys Cys Cys Cys Cys Cys Ala Asn Ser Asn Pro Ala
 1 5 10 15

Met Ala Pro Arg Glu Arg Lys Ala Gly Cys Lys Asn Phe Phe Trp Lys
 20 25 30

Thr Phe Thr Ser Cys
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<400> 96

Cys Cys Cys Cys Cys Cys Cys Cys Cys Cys Ala Asn Ser Asn Pro Ala
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Met Ala Pro Arg Glu Arg Lys Ala Gly Cys Lys Asn Phe Phe Trp Lys
 20 25 30

Thr Phe Thr Ser Cys
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<400> 97

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

<210> 98
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<400> 98

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> 99
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<400> 99

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

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<223> disialo sugar chain added

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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
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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 Cys Phe Trp Lys Thr Phe Thr Ser Cys
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Ser Ala Asn Ser Asn Pro Ala Met Ala Pro Arg Glu Arg Lys Ala Gly
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Cys Lys Asn Cys Phe Trp Lys Thr Phe Thr Ser Cys
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<400> 103

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> 104

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 1 5 10 15

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

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<400> 105

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 1 5 10 15

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

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<222> (27)..(27)
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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 Cys Cys
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Cys Lys Ala Gly Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys
1 5 10 15

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<400> 110

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

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1 5 10 15

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

<210> 112
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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 Tyr Thr Ser Cys
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<223> AMIDATION

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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

<210> 114
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<223> AMIDATION

<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> Acn

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<221> NON_CONS

<222> (1)..(2)

<223> Cys and Ala are bonded through PEGlinker

<400> 115

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

<210> 116

<211> 15

<212> PRT

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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> 116

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

<210> 117

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<220>

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<222> (1)..(1)

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<222> (3)..(3)

<223> Trt

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

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<223> Resin

<400> 117

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> 118
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<223> Acn

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

<400> 118

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

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

<210> 119
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<221> CARBOHYD
<222> (1)..(1)
<223> disialo sugar chain added

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

<400> 119

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

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

<210> 120
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<223> Acn

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<221> BINDING
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<223> Biotin is bonded to Cys through PEGlinker

<400> 120

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

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

<210> 121
<211> 28
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<221> CARBOHYD
<222> (1)..(1)
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<220>
<221> BINDING
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<223> Biotin is bonded to Cys through PEGlinker

<400> 121

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

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

<210> 122
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<220>
<221> BINDING
<222> (28)..(28)
<223> Acn

<220>
<221> BINDING
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<223> Azido pentanoyl is bonded to Cys

<400> 122

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

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

<210> 123
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<220>
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 <223> disialo sugar chain added

 <220>
 <221> BINDING
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 <223> Azido pentanoyl is bonded to Cys

<400> 123

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

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

<210> 124
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 <222> (28)..(28)
 <223> Acn

<400> 124

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

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

<210> 125
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 <221> CARBOHYD
 <222> (1)..(1)
 <223> disialo sugar chain added

<220>

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

<400> 125

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

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

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

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

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

<400> 126

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

Ser Cys

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

<220>
<223> chemically synthesized

<220>
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<222> (7)..(18)
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<222> (1)..(1)
<223> disialo sugar chain added

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

<400> 127

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

Ser Cys

<210> 128

<211> 19

<212> PRT

<213> artificial sequence

<220>

<223> chemically synthesized

<220>

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<222> (8)..(8)

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<220>

<221> BINDING

<222> (19)..(19)

<223> Acn

<400> 128

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

Thr Ser Cys

<210> 129

<211> 19

<212> PRT

<213> artificial sequence

<220>

<223> chemically synthesized

<220>

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<222> (8)..(19)

<223>

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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

<400> 129

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

Thr Ser Cys

<210> 130
 <211> 28
 <212> PRT
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<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> diGlcNAc sugar chain added

<400> 130

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

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

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

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

<400> 131

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

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

<210> 132
 <211> 28

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

<400> 132

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

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

<210> 133
<211> 28
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<220>
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<223>

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

<400> 133

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

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

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

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

<400> 134

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

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

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

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

<400> 135

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

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

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

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

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

<400> 136

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

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

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

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

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

<400> 137

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

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

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

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

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

<400> 138

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

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

<210> 139
<211> 28

<212> PRT
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<220>
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<221> BINDING
<222> (28)..(28)
<223> Acn

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

<400> 139

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

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

<210> 140
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<212> PRT
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<220>
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<221> BINDING
<222> (28)..(28)
<223> Acn

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

<400> 140

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

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

<210> 141
<211> 28

<212> PRT
<213> artificial sequence

<220>
<223> chemically synthesized

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

<400> 141

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

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

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

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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> 142

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

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

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

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

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

<400> 143

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

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

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

<220>
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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> 144

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

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

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

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<222> (17)..(17)
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<220>
<221> BINDING
<222> (28)..(28)
<223> Acn

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

<400> 145

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

1 5 10 15

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

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

<220>
<223> chemically synthesized

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

<400> 146

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

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

<210> 147
<211> 28
<212> PRT
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<220>
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<220>
<221> CARBOHYD
<222> (1)..(1)
<223> Disialo(hexadecylamide) sugar chain added

<400> 147

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

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

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

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

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

<400> 148

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

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

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

<220>
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<220>
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 <222> (18)..(29)
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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> 149

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

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

<210> 150
 <211> 28
 <212> PRT
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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> Asn(disialo) added

<400> 150

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

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

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

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

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

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

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

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

<220>
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<223> Trt

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

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

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

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

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

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

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

<400> 151

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

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

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

<220>
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<220>
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 <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

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 <222> (12)..(12)
 <223> OtBu

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

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 <223> Boc

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

<220>
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<223> tBu

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<221> BINDING

<222> (26)..(26)

<223> tBu

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<222> (27)..(27)

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<222> (28)..(28)

<223> Acn

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<221> BINDING

<222> (28)..(28)

<223> Resin

<400> 152

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

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

<210> 153

<211> 28

<212> PRT

<213> artificial sequence

<220>

<223> chemically synthesized

<220>

<221> BINDING

<222> (17)..(17)

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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> 153

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

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

<210> 154

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

<220>
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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 sugar chain protected with benzyl group added

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

<400> 154

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

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

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

<220>
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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> 155

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

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

<210> 156
<211> 28

<212> PRT
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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> 156

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

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

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

<220>
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<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> 157

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

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

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

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

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<223> StBu

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<223> tBu

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

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

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

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

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<221> BINDING
<222> (15)..(15)
<223> Boc

<220>
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<223> Acn

<220>
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<223> Boc

<220>
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<223> Trt

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 <223> Boc

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 <223> Boc

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

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

<400> 158

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> 159
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<220>
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<220>
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<220>
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<220>
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 <222> (29)..(29)
 <223> Acn

<400> 159

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> 160

<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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<221> BINDING

<222> (29)..(29)

<223> Acn

<220>

<221> CARBOHYD

<222> (1)..(1)

<223> Disialo(aminoethylamide) sugar chain added

<400> 160

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> 161

<211> 29

<212> PRT

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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> 161
 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> 162
 <211> 29
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<220>
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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
1 5 10 15

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

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<222> (1)..(1)

<223> Disialo(aminoethylamide) sugar chain added

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<221> CARBOHYD

<222> (2)..(2)

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Cys Cys Ala Asn Ser Asn Pro Ala Met Ala Pro Arg Glu Arg Lys Ala
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<222> (2)..(2)

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