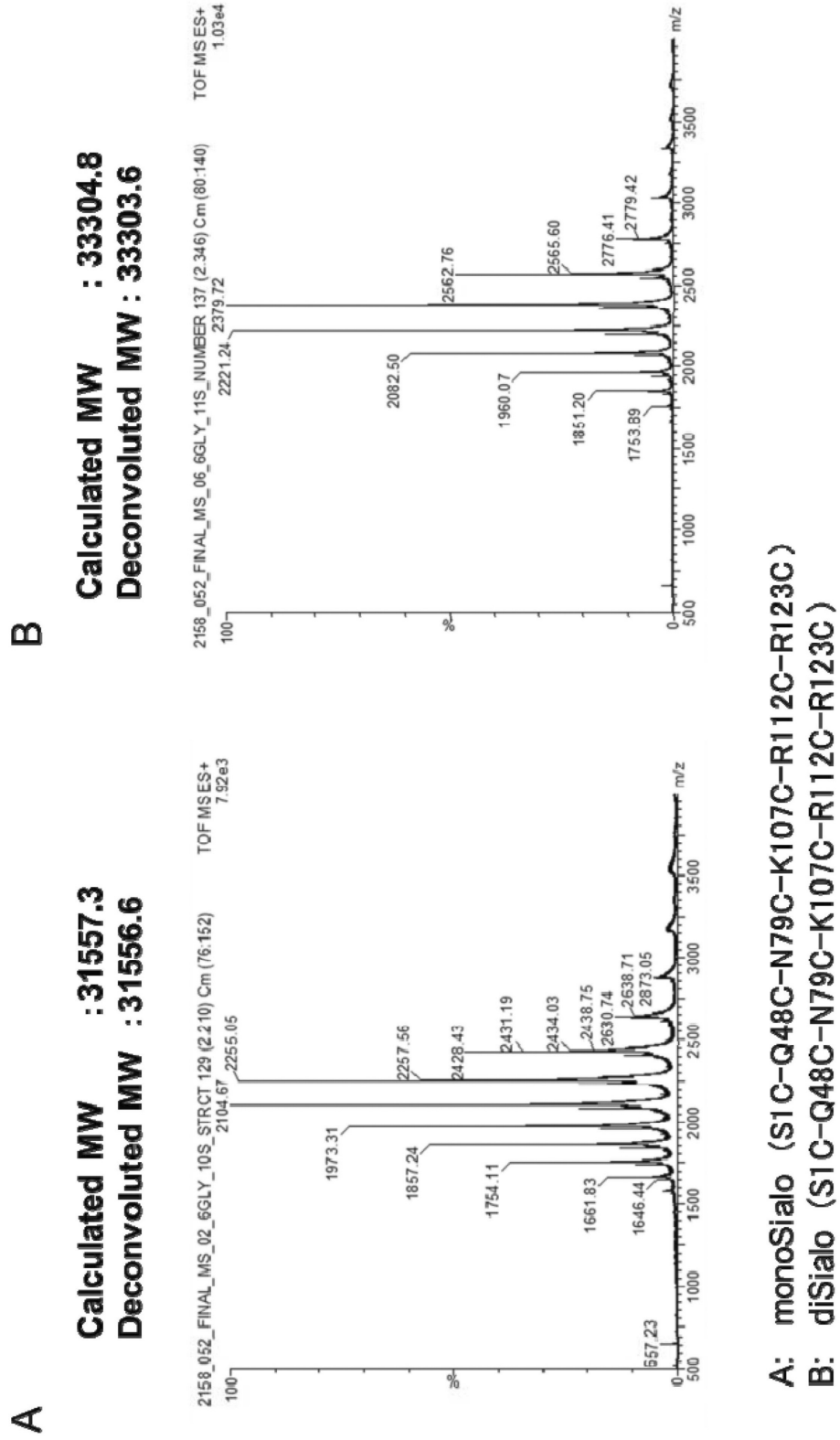
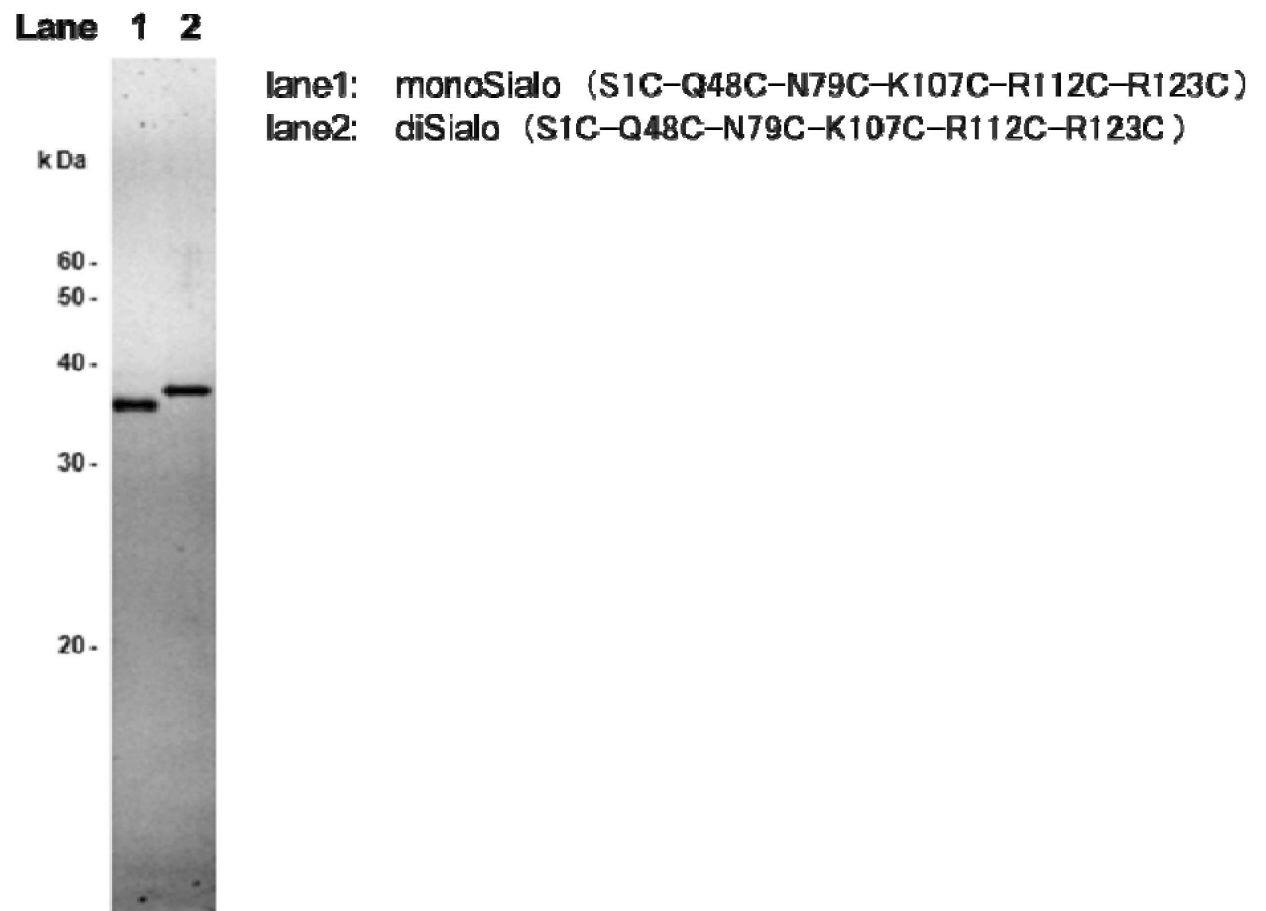


FIGURES

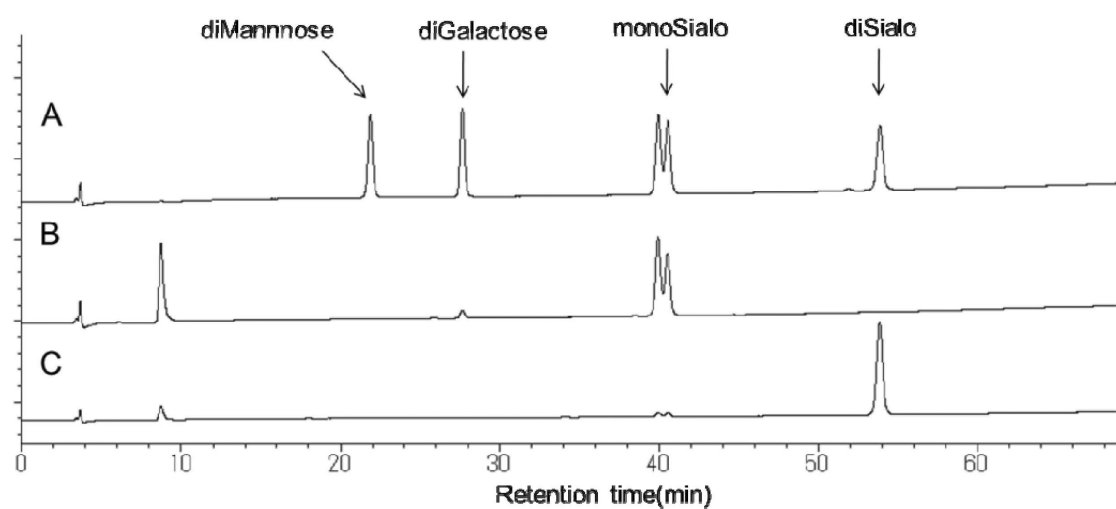
[Figure 1]



[Figure 2]

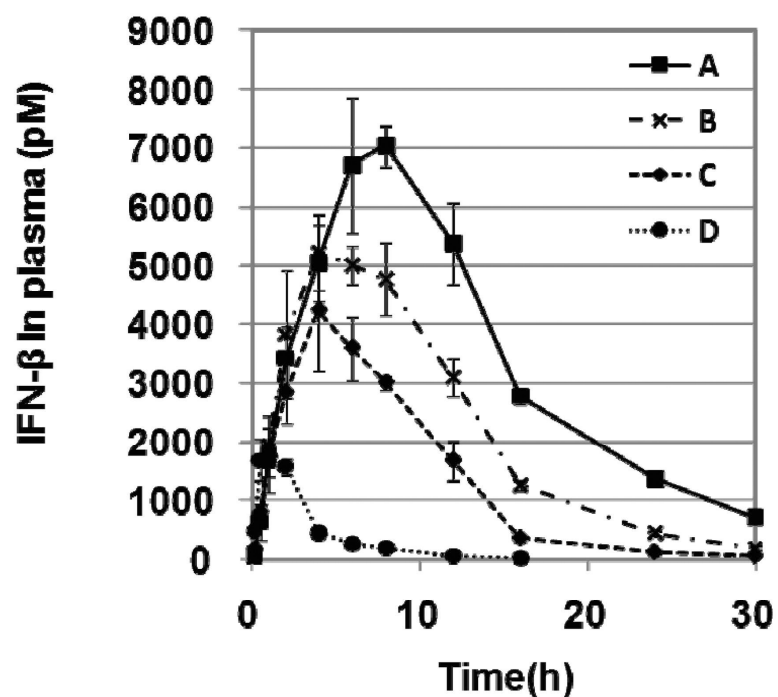


[Figure 3]



A: standard sugars
 B: monoSialo (S1C-Q48C-N79C-K107C-R112C-R123C)
 C: diSialo (S1C-Q48C-N79C-K107C-R112C-R123C)

[Figure 4]



A: 2-6 diSialo (S1C-Q48C-N79C-K107C-R112C-R123C)
 B: 2-6 diSialo (S1C-Q48C-N79C-K107C-R112C)
 C: 2-6 diSialo (S1C-Q48C-N79C-K107C)
 D: Avonex

[Figure 5]

Multiply Sugar Chain-Modified Form	<i>S.C.</i>				
	$t_{1/2}$ (h)	AUC^∞ (h·pM)	MRT (h)	C_{max} (pM)	T_{max} (h)
A	7.1	108351.3	13.0	7033.5	8.0
B	5.0	67000.1	9.5	5226.0	4.0
C	3.9	40608.2	7.5	4229.1	4.0
D	2.7	6876.8	3.3	1858.3	1.0

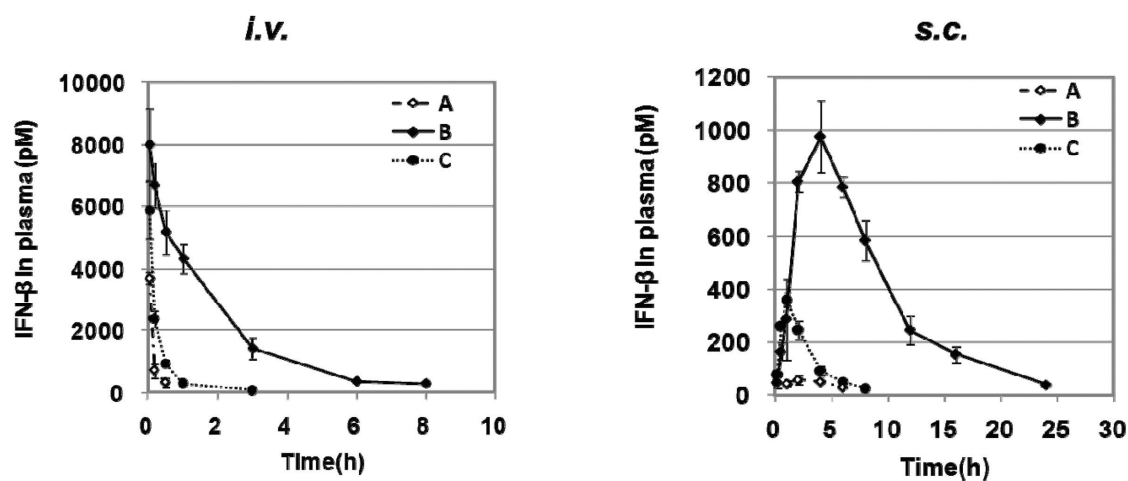
A: 2-6 diSialo (S1C-Q48C-N79C-K107C-R112C-R123C)

B: 2-6 diSialo (S1C-Q48C-N79C-K107C-R112C)

C: 2-6 diSialo (S1C-Q48C-N79C-K107C)

D: Avonex

[Figure 6]



A: 2-6 monoSialo (S1C-Q48C-N79C-K107C)

B: 2-6 diSialo (S1C-Q48C-N79C-K107C)

C: Avonex

[Figure 7]

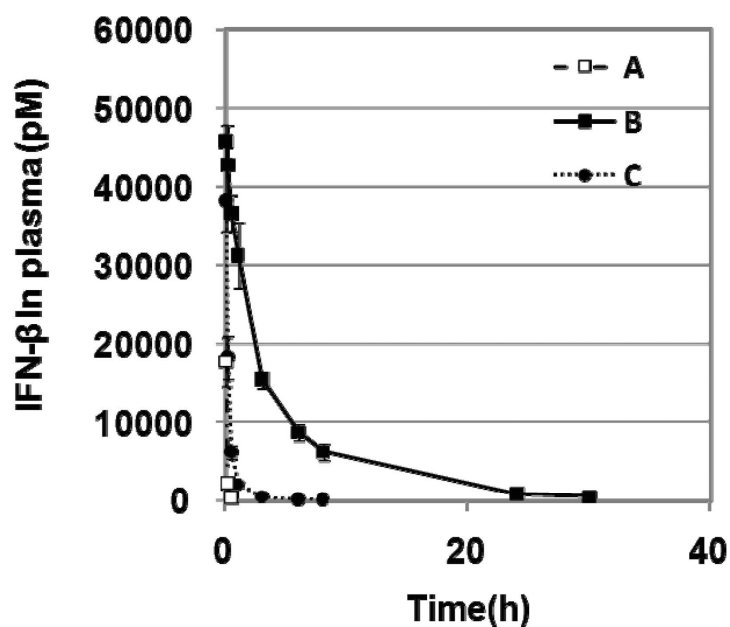
4-gly Sugar Substituted IFN β	<i>i.v.</i>				<i>s.c.</i>					Bio- availability
	$t_{1/2}$ (h)	AUC_{∞} (h·pM)	MRT (h)	C_0 (pM)	$t_{1/2}$ (h)	AUC_{∞} (h·pM)	MRT (h)	C_{max} (pM)	T_{max} (h)	
A	0.11	458.0	0.13	4245.8	ND	458.9	ND	57.7	2	1
B	2.56	11998.9	2.33	7454.4	4.2	9066.9	7.9	975.0	4	0.76
C	1.07	1569.3	0.71	5111.8	2.19	1155.5	3.03	361.2	1	0.74

A: 2-6 monoSialo (S1C-Q48C-N79C-K107C)

B: 2-6 diSialo (S1C-Q48C-N79C-K107C)

C: Avonex

[Figure 8]



A: 2-6 monoSialo (S1C-Q48C-N79C-K107C-R112C-R123C)

B: 2-6 diSialo (S1C-Q48C-N79C-K107C-R112C-R123C)

C: Avonex

[Figure 9]

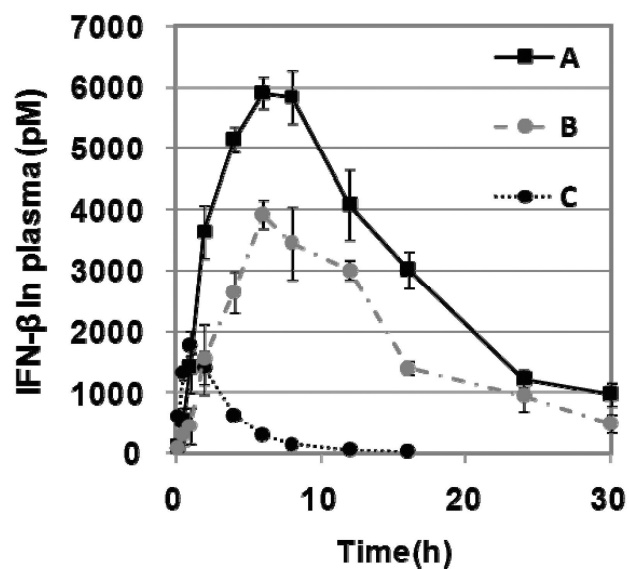
6-gly Sugar Substituted IFN β	<i>i.v.</i>			
	$t_{1/2}$ (h)	AUC^∞ (h·pM)	MRT (h)	C_0 (pM)
A	0.1	2092.3	0.1	29773.9
B	5.7	199219.3	5.8	46547.0
C	2.1	14536.2	1.0	46049.0

A: 2-6 monoSialo (S1C-Q48C-N79C-K107C-R112C-R123C)

B: 2-6 diSialo (S1C-Q48C-N79C-K107C-R112C-R123C)

C: Avonex

[Figure 10]



A: 2-6 diSialo (S1C-Q48C-N79C-K107C-R112C-R123C)

B: PEG20K (N terminus)

C: Avonex

[Figure 11]

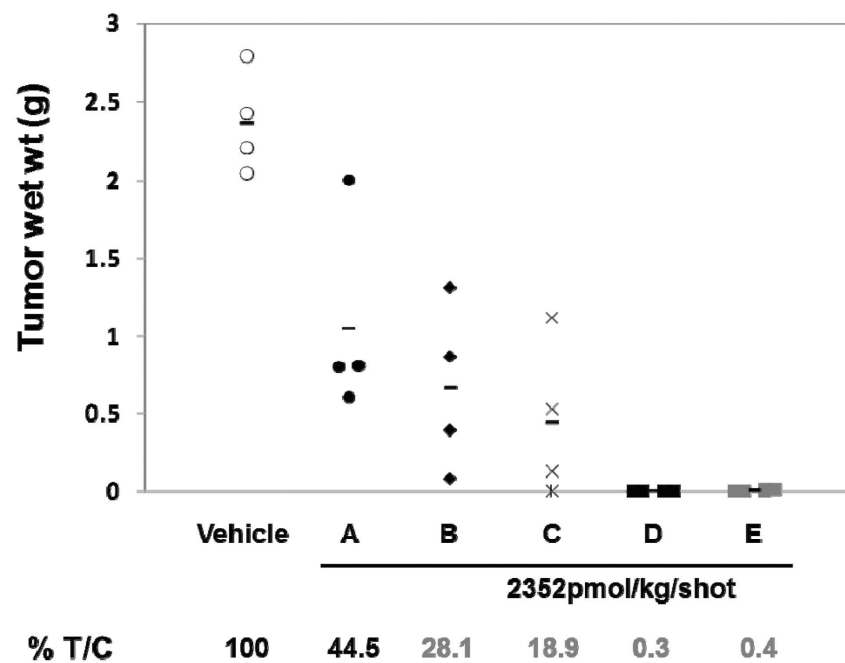
IFN β	S.C.			
	$t_{1/2}$ (h)	AUC^∞ (h·pM)	MRT (h)	C_0 (pM)
A	8.1	102479.3	14.3	5902.2
B	7.8	60421.7	14.4	3919.5
C	3.2	6816.8	3.5	1766.4

A: 2-6 diSialo (S1C-Q48C-N79C-K107C-R112C-R123C)

B: PEG20K (N terminus)

C: Avonex

[Figure 12]



A: Avonex

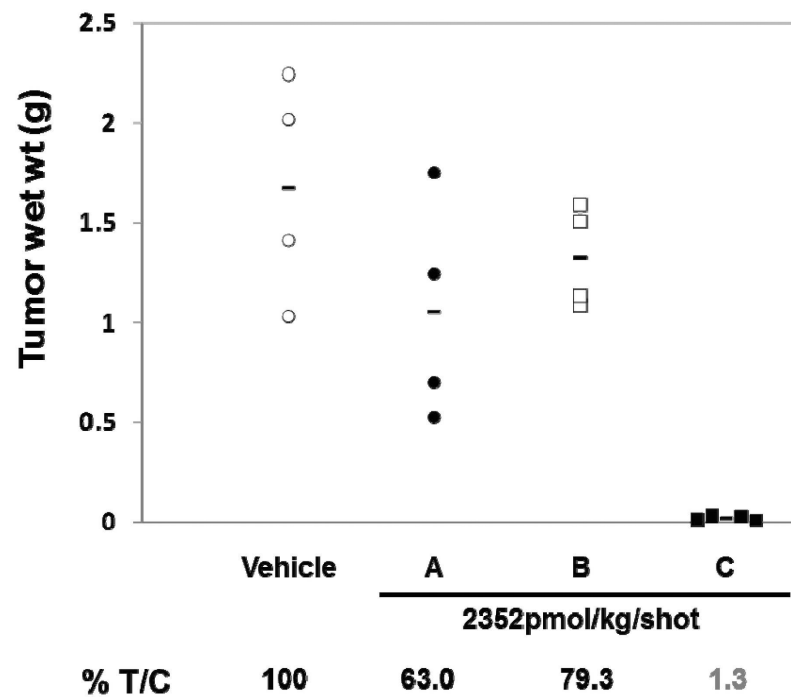
B: 2-6 diSialo (S1C-Q48C-N79C-K107C)

C: 2-6 diSialo (S1C-Q48C-N79C-K107C-R112C)

D: 2-6 diSialo (S1C-Q48C-N79C-K107C-R112C-R123C)

E: 2-6 diSialo (S1C-N3C-Q48C-N79C-K107C-R112C)

[Figure 13]

Day 22

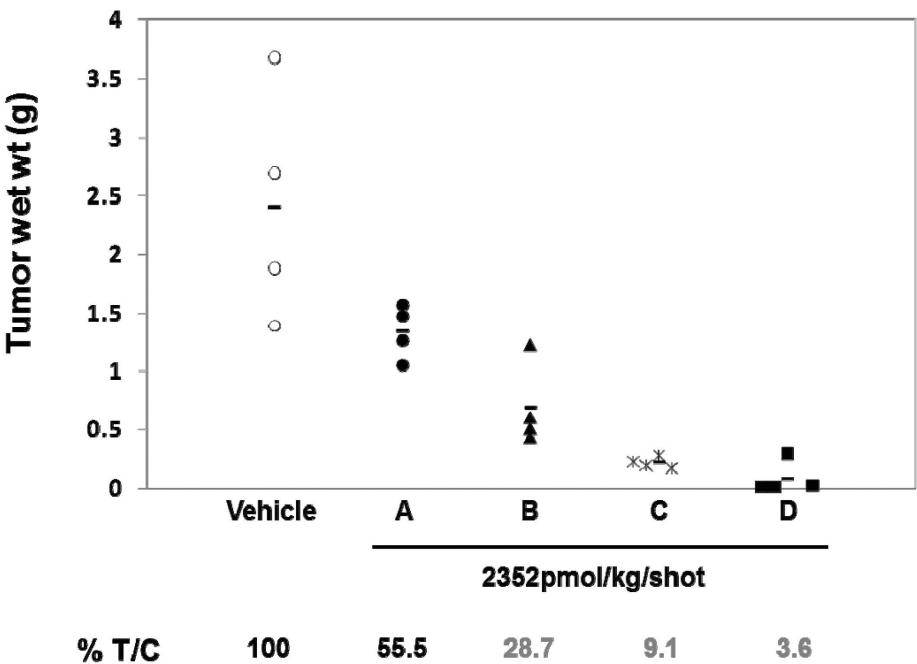
A: Avonex

B: 2-6 monoSialo (S1C-Q48C-N79C-K107C-R112C-R123C)

C: 2-6 diSialo (S1C-Q48C-N79C-K107C-R112C-R123C)

[Figure 14]

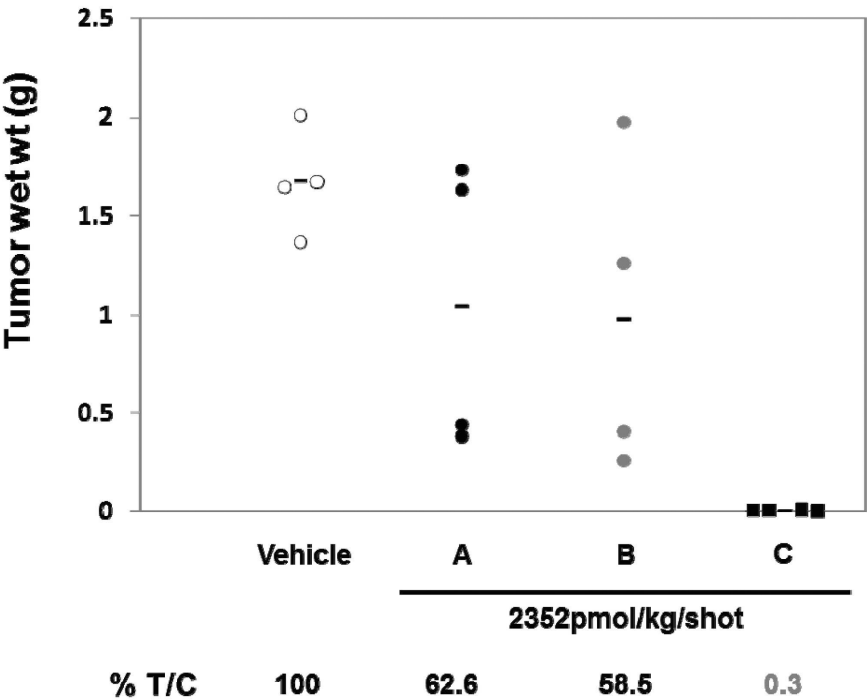
Day 21



- A: Avonex
- B: 2-6 triSialo (S1C-Q48C-N79C-K107C-R112C-R123C)
- C: 2-6 tetraSialo (S1C-Q48C-N79C-K107C-R112C-R123C)
- D: 2-6 diSialo (S1C-Q48C-N79C-K107C-R112C-R123C)

[Figure 15]

Day 21



- A: Avonex
- B: PEG20K (N terminus)
- C: 2-6 diSialo (S1C-Q48C-N79C-K107C-R112C-R123C)

[Figure 16]

(SEQ ID NO. 1)

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Trp	Gln	Leu	Asn	Gly	Arg	Leu	Glu	Tyr	Cys	Leu	Lys	Asp	Arg	Met	Asn	Phe	Asp	Ile	Pro	
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Glu	Glu	Ile	Lys	Gln	Leu	Gln	Gln	Phe	Gln	Lys	Glu	Asp	Ala	Ala	Leu	Thr	Ile	Tyr	Glu	
61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	
Met	Leu	Gln	Asn	Ile	Phe	Ala	Ile	Phe	Arg	Gln	Asp	Ser	Ser	Ser	Thr	Gly	Trp	Asn	Glu	
81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	
Thr	Ile	Val	Glu	Asn	Leu	Leu	Ala	Asn	Val	Tyr	His	Gln	Ile	Asn	His	Leu	Lys	Thr	Val	
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Leu	Glu	Glu	Lys	Leu	Glu	Lys	Glu	Asp	Phe	Thr	Arg	Gly	Lys	Leu	Met	Ser	Ser	Leu	His	
121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	
Leu	Lys	Arg	Tyr	Tyr	Gly	Arg	Ile	Leu	His	Tyr	Leu	Lys	Ala	Lys	Glu	Tyr	Ser	His	Cys	
141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	
Ala	Trp	Thr	Ile	Val	Arg	Val	Glu	Ile	Leu	Arg	Asn	Phe	Tyr	Phe	Ile	Asn	Arg	Leu	Thr	
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		20					25						30		

Asp	Arg	Met	Asn	Phe	Asp	Ile	Pro	Glu	Glu	Ile	Lys	Gln	Leu	Gln	Gln
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Phe	Gln	Lys	Glu	Asp	Ala	Ala	Leu	Thr	Ile	Tyr	Glu	Met	Leu	Gln	Asn
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Ile	Phe	Ala	Ile	Phe	Arg	Gln	Asp	Ser	Ser	Ser	Thr	Gly	Trp	Asn	Glu
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Thr	Ile	Val	Glu	Asn	Leu	Leu	Ala	Asn	Val	Tyr	His	Gln	Ile	Asn	His
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Leu	Lys	Thr	Val	Leu	Glu	Glu	Lys	Leu	Glu	Lys	Glu	Asp	Phe	Thr	Arg
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Gly	Lys	Leu	Met	Ser	Ser	Leu	His	Leu	Lys	Arg	Tyr	Tyr	Gly	Arg	Ile
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Leu	His	Tyr	Leu	Lys	Ala	Lys	Glu	Tyr	Ser	His	Cys	Ala	Trp	Thr	Ile
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Val	Arg	Val	Glu	Ile	Leu	Arg	Asn	Phe	Tyr	Phe	Ile	Asn	Arg	Leu	Thr
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			20					25					30		
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Gln	Phe	Gln	Lys	Glu	Asp	Ala	Ala	Leu	Thr	Ile	Tyr	Glu	Met	Leu	Gln
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Asn	Ile	Phe	Ala	Ile	Phe	Arg	Gln	Asp	Ser	Ser	Ser	Thr	Gly	Trp	Asn
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Glu	Thr	Ile	Val	Glu	Asn	Leu	Leu	Ala	Asn	Val	Tyr	His	Gln	Ile	Asn
				85					90					95	
His	Leu	Lys	Thr	Val	Leu	Glu	Glu	Lys	Leu	Glu	Lys	Glu	Asp	Phe	Thr
			100					105					110		
Arg	Gly	Lys	Leu	Met	Ser	Ser	Leu	His	Leu	Lys	Arg	Tyr	Tyr	Gly	Arg
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Ile	Leu	His	Tyr	Leu	Lys	Ala	Lys	Glu	Tyr	Ser	His	Cys	Ala	Trp	Thr
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Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg Leu Glu Tyr Cys Leu Lys
 20 25 30

Asp Arg Met Asn Phe Asp Ile Pro Glu Glu Ile Lys Gln Leu Gln Cys
 35 40 45

Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln Asn
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Gln	Lys	Leu	Leu	Trp	Gln	Leu	Asn	Gly	Arg	Leu	Glu	Tyr	Cys	Leu	Lys
		20						25					30		

Asp	Arg	Met	Asn	Phe	Asp	Ile	Pro	Glu	Glu	Ile	Lys	Gln	Leu	Gln	Cys
		35					40					45			

Phe	Gln	Lys	Glu	Asp	Ala	Ala	Leu	Thr	Ile	Tyr	Glu	Met	Leu	Gln	Asn
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Gln	Lys	Leu	Leu	Trp	Gln	Leu	Asn	Gly	Arg	Leu	Glu	Tyr	Cys	Leu	Lys
		20						25					30		

Asp	Arg	Met	Asn	Phe	Asp	Ile	Pro	Glu	Glu	Ile	Lys	Gln	Leu	Gln	Cys
		35					40					45			

Phe	Gln	Lys	Glu	Asp	Ala	Ala	Leu	Thr	Ile	Tyr	Glu	Met	Leu	Gln	Asn
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Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg Leu Cys Tyr Cys Leu Lys
 20 25 30

Asp Arg Met Asn Phe Asp Ile Pro Glu Glu Ile Lys Gln Leu Gln Cys
 35 40 45

Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln Asn
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Ile Phe Ala Ile Phe Cys Gln Asp Ser Ser Ser Thr Gly Trp
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 20 25 30

Asp Arg Met Asn Phe Asp Ile Pro Glu Glu Ile Lys Gln Leu Gln Gln
 35 40 45

Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln Asn
 50 55 60

Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser Ser Thr Gly Trp
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Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg Leu Glu Tyr Cys Leu Lys
 20 25 30

Asp Arg Met Asn Phe Asp Ile Pro Glu Glu Ile Lys Gln Leu Gln Gln
 35 40 45

Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln Asn
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Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg Leu Glu Tyr Cys Leu Lys
20 25 30

Asp Arg Met Asn Phe Asp Ile Pro Glu Glu Ile Lys Gln Leu Gln Gln
35 40 45

Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln Asn
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Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser Ser Thr Gly Trp
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Gln Lys Leu Leu Trp Gln Leu Cys Gly Arg Leu Glu Tyr Cys Leu Lys
20 25 30

Asp Arg Met Asn Phe Asp Ile Pro Glu Glu Ile Lys Gln Leu Gln Gln
35 40 45

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Gln Lys Leu Leu Trp Gln Leu Asn Cys Arg Leu Glu Tyr Cys Leu Lys
 20 25 30

Asp Arg Met Asn Phe Asp Ile Pro Glu Glu Ile Lys Gln Leu Gln Gln
 35 40 45

Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln Asn
 50 55 60

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20 25 30

Asp Arg Met Asn Phe Asp Ile Pro Glu Glu Ile Lys Gln Leu Gln Gln
35 40 45

Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln Asn
50 55 60

Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser Ser Thr Gly Trp
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Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg Leu Glu Tyr Cys Leu Cys
20 25 30

Asp Arg Met Asn Phe Asp Ile Pro Glu Glu Ile Lys Gln Leu Gln Gln

35 40 45

Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln Asn
50 55 60

Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser Ser Thr Gly Trp
65 70 75

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<400> 14

Ser Tyr Asn Leu Leu Gly Phe Leu Gln Arg Ser Ser Asn Phe Gln Ser
1 5 10 15

Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg Leu Glu Tyr Cys Leu Lys
20 25 30

Asp Arg Cys Asn Phe Asp Ile Pro Glu Glu Ile Lys Gln Leu Gln Gln
35 40 45

Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln Asn
50 55 60

Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser Ser Thr Gly Trp
65 70 75

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Ser Tyr Asn Leu Leu Gly Phe Leu Gln Arg Ser Ser Asn Phe Gln Ser
 1 5 10 15

Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg Leu Glu Tyr Cys Leu Lys
 20 25 30

Asp Arg Met Asn Phe Cys Ile Pro Glu Glu Ile Lys Gln Leu Gln Gln
 35 40 45

Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln Asn
 50 55 60

Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser Ser Thr Gly Trp
 65 70 75

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Ser Tyr Asn Leu Leu Gly Phe Leu Gln Arg Ser Ser Asn Phe Gln Ser
 1 5 10 15

Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg Leu Glu Tyr Cys Leu Lys

20

25

30

Asp Arg Met Asn Phe Asp Ile Pro Cys Glu Ile Lys Gln Leu Gln Gln
 35 40 45

Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln Asn
 50 55 60

Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser Ser Thr Gly Trp
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<400> 17

Ser Tyr Asn Leu Leu Gly Phe Leu Gln Arg Ser Ser Asn Phe Gln Ser
 1 5 10 15

Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg Leu Glu Tyr Cys Leu Lys
 20 25 30

Asp Arg Met Asn Phe Asp Ile Pro Glu Glu Ile Lys Gln Leu Gln Cys
 35 40 45

Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln Asn
 50 55 60

Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser Ser Thr Gly Trp
 65 70 75

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<400> 18

Ser Tyr Asn Leu Leu Gly Phe Leu Gln Arg Ser Ser Asn Phe Gln Ser
1 5 10 15

Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg Leu Glu Tyr Cys Leu Lys
20 25 30

Asp Arg Met Asn Phe Asp Ile Pro Glu Glu Ile Lys Gln Leu Gln Gln
35 40 45

Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln Asn
50 55 60

Ile Phe Ala Ile Phe Cys Gln Asp Ser Ser Ser Thr Gly Trp
65 70 75

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<400> 19

Ser Tyr Asn Leu Leu Gly Phe Leu Gln Arg Ser Ser Asn Phe Gln Ser

1 5 10 15

Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg Leu Glu Tyr Cys Leu Lys
20 25 30

Asp Arg Met Asn Phe Asp Ile Pro Glu Glu Ile Lys Gln Leu Gln Gln
35 40 45

Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln Asn
50 55 60

Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser Cys Thr Gly Trp
65 70 75

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<400> 20

Ser Tyr Asn Leu Leu Gly Phe Leu Gln Arg Ser Ser Asn Phe Gln Ser
1 5 10 15

Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg Leu Glu Tyr Cys Leu Lys
20 25 30

Asp Arg Met Asn Phe Asp Ile Pro Cys Glu Ile Lys Gln Leu Gln Gln
35 40 45

Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln Asn
50 55 60

Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser Cys Thr Gly Trp
65 70 75

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<400> 21

Ser Tyr Asn Leu Leu Gly Phe Leu Gln Arg Ser Ser Asn Phe Gln Ser
 1 5 10 15

Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg Leu Glu Tyr Cys Leu Lys
 20 25 30

Asp Arg Met Asn Phe Asp Ile Pro Glu Cys Ile Lys Gln Leu Gln Gln
 35 40 45

Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln Asn
 50 55 60

Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser Cys Thr Gly Trp
 65 70 75

<210> 22
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<400> 22

Ser Tyr Asn Leu Leu Gly Phe Leu Gln Arg Ser Ser Asn Phe Gln Ser
1 5 10 15

Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg Leu Glu Tyr Cys Leu Lys
20 25 30

Asp Arg Met Asn Phe Asp Ile Pro Glu Glu Ile Lys Cys Leu Gln Gln
35 40 45

Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln Asn
50 55 60

Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser Cys Thr Gly Trp
65 70 75

<210> 23

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<400> 23

Ser Tyr Asn Leu Leu Gly Phe Leu Gln Arg Ser Ser Asn Phe Gln Ser
1 5 10 15

Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg Leu Glu Tyr Cys Leu Lys
20 25 30

Asp Arg Met Asn Phe Asp Ile Pro Glu Glu Ile Lys Gln Cys Gln Gln
35 40 45

Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln Asn
50 55 60

Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser Cys Thr Gly Trp
 65 70 75

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Ser Tyr Asn Leu Leu Gly Phe Leu Gln Arg Ser Ser Asn Phe Gln Ser
 1 5 10 15

Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg Leu Glu Tyr Cys Leu Lys
 20 25 30

Asp Arg Met Asn Phe Asp Ile Pro Glu Glu Ile Lys Gln Leu Cys Gln
 35 40 45

Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln Asn
 50 55 60

Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser Cys Thr Gly Trp
 65 70 75

<210> 25
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Ser Tyr Asn Leu Leu Gly Phe Leu Gln Arg Ser Ser Asn Phe Gln Ser
 1 5 10 15

Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg Leu Glu Tyr Cys Leu Lys
 20 25 30

Asp Arg Met Asn Phe Asp Ile Pro Glu Glu Ile Lys Gln Leu Gln Cys
 35 40 45

Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln Asn
 50 55 60

Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser Cys Thr Gly Trp
 65 70 75

<210> 26
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<400> 26

Ser Tyr Asn Leu Leu Gly Phe Leu Gln Arg Ser Ser Asn Phe Gln Ser
 1 5 10 15

Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg Leu Glu Tyr Cys Leu Lys
 20 25 30

Asp Arg Met Asn Phe Asp Ile Pro Glu Glu Ile Lys Gln Leu Gln Gln
 35 40 45

Cys Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln Asn
 50 55 60

Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser Cys Thr Gly Trp
 65 70 75

<210> 27
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<400> 27

Ser Tyr Asn Leu Leu Gly Phe Leu Gln Arg Ser Ser Asn Phe Gln Ser
 1 5 10 15

Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg Leu Glu Tyr Cys Leu Lys
 20 25 30

Asp Arg Met Asn Phe Asp Ile Pro Glu Glu Ile Lys Gln Leu Gln Gln
 35 40 45

Phe Cys Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln Asn
 50 55 60

Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser Cys Thr Gly Trp
 65 70 75

<210> 28
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 <223> 1C has Thiazolidine group

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 <223> Acn

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 <222> (78)..(78)
 <223> alkylthioester-modified with MESNA

<400> 28

Cys Tyr Asn Leu Leu Gly Phe Leu Gln Arg Ser Ser Asn Phe Gln Ser
 1 5 10 15

Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg Leu Glu Cys Cys Leu Lys
 20 25 30

Asp Arg Met Asn Phe Asp Ile Pro Glu Glu Ile Lys Gln Leu Gln Cys
 35 40 45

Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln Asn
 50 55 60

Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser Ser Thr Gly Trp
 65 70 75

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<400> 29

Cys Tyr Asn Leu Leu Gly Phe Leu Gln Arg Ser Ser Asn Phe Gln Ser
1 5 10 15

Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg Leu Glu Tyr Cys Leu Lys
20 25 30

Asp Arg Cys Asn Phe Asp Ile Pro Glu Glu Ile Lys Gln Leu Gln Cys
35 40 45

Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln Asn
50 55 60

Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser Ser Thr Gly Trp
65 70 75

<210> 30

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<223> 1C has Thiazolidine group

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<223> Acn

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<222> (78)..(78)

<223> alkylthioester-modified with MESNA

<400> 30

Cys Tyr Asn Leu Leu Gly Phe Leu Gln Arg Ser Ser Asn Phe Gln Ser
1 5 10 15

Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg Leu Glu Tyr Cys Leu Lys
20 25 30

Asp Arg Met Asn Phe Asp Ile Pro Cys Glu Ile Lys Gln Leu Gln Cys
35 40 45

Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln Asn
 50 55 60

Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser Ser Thr Gly Trp
 65 70 75

<210> 31
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<400> 31

Cys Glu Thr Ile Val Glu Asn Leu Leu Ala Asn Val Tyr His Gln Ile
 1 5 10 15

Asn His Leu Lys Thr Val Leu Glu Glu Lys Leu Glu Cys Glu Asp Phe
 20 25 30

Thr Cys Gly Lys Leu Met Ser Ser Leu His Leu Lys Cys Tyr Tyr Gly
 35 40 45

Arg Ile Leu His Tyr Leu Lys Ala Lys Glu Tyr Ser His Cys Ala Trp
 50 55 60

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

Leu Thr Gly Tyr Leu Arg Asn
 85

<210> 32
 <211> 87
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<400> 32

Cys Glu Thr Ile Val Glu Asn Leu Leu Ala Asn Val Tyr His Gln Ile
 1 5 10 15

Asn His Leu Lys Thr Val Leu Glu Glu Lys Leu Glu Lys Glu Asp Phe
 20 25 30

Thr Arg Gly Lys Leu Met Ser Ser Leu His Leu Lys Arg Tyr Tyr Gly
 35 40 45

Arg Ile Leu His Tyr Leu Lys Ala Lys Glu Tyr Ser His Cys Ala Trp
 50 55 60

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

Leu Thr Gly Tyr Leu Arg Asn
 85

<210> 33
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 <222> (62)..(62)
 <223> Acn

<400> 33

Cys Glu Thr Ile Val Glu Asn Leu Leu Ala Asn Val Tyr His Gln Ile
 1 5 10 15

Asn His Leu Lys Thr Val Leu Glu Glu Lys Leu Glu Cys Glu Asp Phe
 20 25 30

Thr Arg Gly Lys Leu Met Ser Ser Leu His Leu Lys Arg Tyr Tyr Gly
 35 40 45

Arg Ile Leu His Tyr Leu Lys Ala Lys Glu Tyr Ser His Cys Ala Trp

50 55 60

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

Leu Thr Gly Tyr Leu Arg Asn
85

<210>	34
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<400> 34

Cys Glu Thr Ile Val Glu Asn Leu Leu Ala Asn Val Tyr His Gln Ile
1 5 10 15

Asn His Leu Lys Thr Val Leu Glu Glu Lys Leu Glu Cys Glu Asp Phe
20 25 30

Thr Cys Gly Lys Leu Met Ser Ser Leu His Leu Lys Arg Tyr Tyr Gly
35 40 45

Arg Ile Leu His Tyr Leu Lys Ala Lys Glu Tyr Ser His Cys Ala Trp
50 55 60

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

Leu Thr Gly Tyr Leu Arg Asn
85

<210>	35
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Cys	Glu	Thr	Ile	Val	Glu	Asn	Leu	Leu	Ala	Asn	Val	Tyr	His	Gln	Ile
1				5					10					15	

Asn	His	Leu	Lys	Thr	Val	Leu	Glu	Glu	Lys	Leu	Glu	Cys	Glu	Asp	Phe
		20					25						30		

Thr	Arg	Gly	Lys	Leu	Met	Ser	Ser	Leu	His	Leu	Lys	Arg	Tyr	Tyr	Gly
		35					40					45			

Arg	Ile	Leu	His	Tyr	Leu	Lys	Ala	Lys	Cys	Tyr	Ser	His	Cys	Ala	Trp
	50					55					60				

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

Leu	Thr	Gly	Tyr	Leu	Arg	Asn
				85		

<210> 36

<211> 87

<212> PRT

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<222> (62)..(62)

<223> Acn

<400> 36

Cys	Glu	Thr	Ile	Val	Glu	Asn	Leu	Leu	Ala	Asn	Val	Tyr	His	Gln	Ile
1				5					10					15	

Asn	His	Leu	Lys	Cys	Val	Leu	Glu	Glu	Lys	Leu	Glu	Cys	Glu	Asp	Phe
		20					25						30		

Thr	Cys	Gly	Lys	Leu	Met	Ser	Ser	Leu	His	Leu	Lys	Arg	Tyr	Tyr	Gly
		35					40					45			

Arg Ile Leu His Tyr Leu Lys Ala Lys Glu Tyr Ser His Cys Ala Trp
 50 55 60

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

Leu Thr Gly Tyr Leu Arg Asn
 85

<210> 37
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 <223> Acn

<400> 37

Cys Glu Thr Ile Val Glu Asn Leu Leu Ala Asn Val Tyr His Gln Ile
 1 5 10 15

Asn His Leu Lys Thr Val Leu Glu Cys Lys Leu Glu Cys Glu Asp Phe
 20 25 30

Thr Arg Gly Lys Leu Met Ser Ser Leu His Leu Lys Arg Tyr Tyr Gly
 35 40 45

Arg Ile Leu His Tyr Leu Lys Ala Lys Cys Tyr Ser His Cys Ala Trp
 50 55 60

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

Leu Thr Gly Tyr Leu Arg Asn
 85

<210> 38
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<222> (62)..(62)

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<400> 38

Cys	Glu	Thr	Ile	Val	Glu	Asn	Leu	Leu	Ala	Asn	Val	Tyr	His	Gln	Ile
1				5					10					15	

Asn	His	Leu	Lys	Thr	Val	Leu	Glu	Glu	Lys	Leu	Cys	Cys	Glu	Asp	Phe
		20					25						30		

Thr	Arg	Gly	Lys	Leu	Met	Ser	Ser	Leu	His	Leu	Lys	Arg	Tyr	Tyr	Gly
		35					40					45			

Arg	Ile	Leu	His	Tyr	Leu	Lys	Ala	Lys	Cys	Tyr	Ser	His	Cys	Ala	Trp
	50					55					60				

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

Leu	Thr	Gly	Tyr	Leu	Arg	Asn
				85		

<210> 39

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<212> PRT

<213> Artificial sequence

<220>

<223> chemically synthesized

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<221> BINDING

<222> (62)..(62)

<223> Acn

<400> 39

Cys	Glu	Thr	Ile	Val	Glu	Asn	Leu	Leu	Ala	Asn	Val	Tyr	His	Gln	Ile
1				5					10					15	

Asn	His	Leu	Lys	Thr	Val	Leu	Glu	Glu	Lys	Leu	Glu	Cys	Glu	Cys	Phe
		20					25					30			

Thr	Arg	Gly	Lys	Leu	Met	Ser	Ser	Leu	His	Leu	Lys	Arg	Tyr	Tyr	Gly
		35					40					45			

Arg Ile Leu His Tyr Leu Lys Ala Lys Cys Tyr Ser His Cys Ala Trp
 50 55 60

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

Leu Thr Gly Tyr Leu Arg Asn
 85

<210> 40
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<220>
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<220>
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<400> 40

Cys Glu Thr Ile Val Glu Asn Leu Leu Ala Asn Val Tyr His Gln Ile
 1 5 10 15

Asn His Leu Lys Thr Val Leu Glu Glu Lys Leu Glu Cys Glu Asp Phe
 20 25 30

Thr Arg Gly Lys Cys Met Ser Ser Leu His Leu Lys Arg Tyr Tyr Gly
 35 40 45

Arg Ile Leu His Tyr Leu Lys Ala Lys Cys Tyr Ser His Cys Ala Trp
 50 55 60

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

Leu Thr Gly Tyr Leu Arg Asn
 85

<210> 41
 <211> 87
 <212> PRT
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<220>

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<222> (62)..(62)

<223> Acn

<400> 41

Cys	Glu	Thr	Ile	Val	Glu	Asn	Leu	Leu	Ala	Asn	Val	Tyr	His	Gln	Ile
1				5					10					15	

Asn	His	Leu	Lys	Thr	Val	Leu	Glu	Glu	Lys	Leu	Glu	Cys	Glu	Asp	Phe
		20					25						30		

Thr	Arg	Gly	Lys	Leu	Met	Ser	Ser	Cys	His	Leu	Lys	Arg	Tyr	Tyr	Gly
		35					40					45			

Arg	Ile	Leu	His	Tyr	Leu	Lys	Ala	Lys	Cys	Tyr	Ser	His	Cys	Ala	Trp
	50					55					60				

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

Leu	Thr	Gly	Tyr	Leu	Arg	Asn
				85		

<210> 42

<211> 87

<212> PRT

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<220>

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<222> (62)..(62)

<223> Acn

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Cys	Glu	Thr	Ile	Val	Glu	Asn	Leu	Leu	Ala	Asn	Val	Tyr	His	Gln	Ile
1				5					10					15	

Asn	His	Leu	Lys	Thr	Val	Leu	Glu	Glu	Lys	Leu	Glu	Cys	Glu	Asp	Phe
		20					25						30		

Thr	Cys	Gly	Lys	Leu	Met	Ser	Ser	Leu	His	Leu	Lys	Arg	Tyr	Tyr	Gly
		35					40					45			

Arg Ile Leu Cys Tyr Leu Lys Ala Lys Glu Tyr Ser His Cys Ala Trp
 50 55 60

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

Leu Thr Gly Tyr Leu Arg Asn
 85

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Cys Glu Thr Ile Val Glu Asn Leu Leu Ala Asn Val Tyr His Gln Ile
 1 5 10 15

Asn His Leu Lys Thr Val Leu Glu Glu Lys Leu Glu Cys Glu Asp Phe
 20 25 30

Thr Cys Gly Lys Leu Met Ser Ser Leu His Leu Lys Arg Tyr Tyr Gly
 35 40 45

Arg Ile Leu His Tyr Leu Lys Ala Lys Cys Tyr Ser His Cys Ala Trp
 50 55 60

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

Leu Thr Gly Tyr Leu Arg Asn
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Asn His Leu Lys Thr Val Leu Glu Glu Lys Leu Glu Cys Glu Asp Phe
 20 25 30

Thr Cys Gly Lys Leu Met Ser Ser Leu His Leu Lys Arg Tyr Tyr Gly
 35 40 45

Arg Ile Leu His Tyr Leu Lys Ala Lys Glu Tyr Ser Cys Cys Ala Trp
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Thr Ile Val Arg Val Glu Ile Leu Arg Asn Phe Tyr Phe Ile Asn Arg
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Leu Thr Gly Tyr Leu Arg Asn
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Asn His Leu Lys Thr Val Leu Glu Glu Lys Leu Glu Cys Glu Asp Phe
 20 25 30

Thr Cys Gly Lys Leu Met Ser Ser Leu His Leu Lys Arg Tyr Tyr Gly

	35		40		45										
Arg	Ile	Leu	His	Tyr	Leu	Lys	Ala	Lys	Glu	Tyr	Ser	His	Cys	Ala	Trp
	50					55					60				
Thr	Ile	Val	Arg	Val	Glu	Ile	Leu	Arg	Asn	Phe	Tyr	Phe	Ile	Asn	Arg
65					70					75					80
Leu	Thr	Gly	Tyr	Leu	Cys	Asn									
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<222> (30)..(140)

<400> 46

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Cys Tyr Asn Leu Leu Gly Phe Leu Gln Arg Ser Ser Asn Phe Gln Ser
1 5 10 15

Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg Leu Glu Tyr Cys Leu Lys
20 25 30

Asp Arg Met Asn Phe Asp Ile Pro Glu Glu Ile Lys Gln Leu Gln Cys
35 40 45

Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln Asn
50 55 60

Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser Ser Thr Gly Trp Cys Glu
65 70 75 80

Thr Ile Val Glu Asn Leu Leu Ala Asn Val Tyr His Gln Ile Asn His
85 90 95

Leu Lys Thr Val Leu Glu Glu Lys Leu Glu Cys Glu Asp Phe Thr Cys
100 105 110

Gly Lys Leu Met Ser Ser Leu His Leu Lys Cys Tyr Tyr Gly Arg Ile
115 120 125

Leu His Tyr Leu Lys Ala Lys Glu Tyr Ser His Cys Ala Trp Thr Ile
130 135 140

Val Arg Val Glu Ile Leu Arg Asn Phe Tyr Phe Ile Asn Arg Leu Thr
145 150 155 160

Gly Tyr Leu Arg Asn
165

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Ser	Tyr	Asn	Leu	Leu	Gly	Phe	Leu	Gln	Arg	Ser	Ser	Asn	Phe	Gln	Ser
1				5					10					15	

Gln	Lys	Leu	Leu	Trp	Gln	Leu	Asn	Gly	Arg	Leu	Glu	Tyr	Cys	Leu	Lys
			20					25					30		

Asp	Arg	Met	Asn	Phe	Asp	Ile	Pro	Glu	Glu	Ile	Lys	Gln	Leu	Gln	Cys
		35					40					45			

Phe	Gln	Lys	Glu	Asp	Ala	Ala	Leu	Thr	Ile	Tyr	Glu	Met	Leu	Gln	Asn
	50					55					60				

Ile	Phe	Ala	Ile	Phe	Arg	Gln	Asp	Ser	Ser	Cys	Thr	Gly	Trp	Cys	Glu
65					70					75					80

Thr	Ile	Val	Glu	Asn	Leu	Leu	Ala	Asn	Val	Tyr	His	Gln	Ile	Asn	His
				85					90					95	

Leu	Lys	Thr	Val	Leu	Glu	Glu	Lys	Leu	Glu	Cys	Glu	Asp	Phe	Thr	Cys
			100					105					110		

Gly Lys Leu Met Ser Ser Leu His Leu Lys Arg Tyr Tyr Gly Arg Ile
 115 120 125

Leu His Tyr Leu Lys Ala Lys Cys Tyr Ser His Cys Ala Trp Thr Ile
 130 135 140

Val Arg Val Glu Ile Leu Arg Asn Phe Tyr Phe Ile Asn Arg Leu Thr
 145 150 155 160

Gly Tyr Leu Arg Asn
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Cys Tyr Cys Leu Leu Gly Phe Leu Gln Arg Ser Ser Asn Phe Gln Ser
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Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg Leu Glu Tyr Cys Leu Lys
 20 25 30

Asp Arg Met Asn Phe Asp Ile Pro Glu Glu Ile Lys Gln Leu Gln Cys
 35 40 45

Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln Asn
 50 55 60

Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser Ser Thr Gly Trp Cys Glu
 65 70 75 80

Thr Ile Val Glu Asn Leu Leu Ala Asn Val Tyr His Gln Ile Asn His
 85 90 95

Leu Lys Thr Val Leu Glu Glu Lys Leu Glu Cys Glu Asp Phe Thr Cys
 100 105 110

Gly Lys Leu Met Ser Ser Leu His Leu Lys Arg Tyr Tyr Gly Arg Ile
 115 120 125

Leu His Tyr Leu Lys Ala Lys Glu Tyr Ser His Cys Ala Trp Thr Ile
 130 135 140

Val Arg Val Glu Ile Leu Arg Asn Phe Tyr Phe Ile Asn Arg Leu Thr
 145 150 155 160

Gly Tyr Leu Arg Asn
 165

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Cys	Tyr	Cys	Leu	Leu	Gly	Phe	Leu	Gln	Arg	Ser	Ser	Asn	Phe	Gln	Ser
1			5					10						15	

Gln	Lys	Leu	Leu	Trp	Gln	Leu	Asn	Gly	Arg	Leu	Glu	Tyr	Cys	Leu	Lys
		20						25					30		

Asp	Arg	Met	Asn	Phe	Asp	Ile	Pro	Glu	Glu	Ile	Lys	Gln	Leu	Gln	Cys
		35					40					45			

Phe	Gln	Lys	Glu	Asp	Ala	Ala	Leu	Thr	Ile	Tyr	Glu	Met	Leu	Gln	Asn
	50					55					60				

Ile	Phe	Ala	Ile	Phe	Arg	Gln	Asp	Ser	Ser	Ser	Thr	Gly	Trp	Cys	Glu
65					70					75					80

Thr	Ile	Val	Glu	Asn	Leu	Leu	Ala	Asn	Val	Tyr	His	Gln	Ile	Asn	His
				85					90					95	

Leu	Lys	Thr	Val	Leu	Glu	Glu	Lys	Leu	Glu	Cys	Glu	Asp	Phe	Thr	Cys
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

100

105

110

Gly Lys Leu Met Ser Ser Leu His Leu Lys Arg Tyr Tyr Gly Arg Ile
 115 120 125

Leu His Tyr Leu Lys Ala Lys Glu Tyr Ser His Cys Ala Trp Thr Ile
 130 135 140

Val Arg Val Glu Ile Leu Arg Asn Phe Tyr Phe Ile Asn Arg Leu Thr
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Gly Tyr Leu Arg Asn
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Cys Tyr Asn Leu Leu Gly Phe Leu Gln Arg Ser Ser Asn Phe Gln Ser
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Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg Leu Glu Tyr Cys Leu Lys
20 25 30

Asp Arg Met Asn Phe Asp Ile Pro Glu Glu Ile Lys Gln Leu Gln Cys
35 40 45

Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln Asn
50 55 60

Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser Ser Thr Gly Trp Cys Glu
65 70 75 80

Thr Ile Val Glu Asn Leu Leu Ala Asn Val Tyr His Gln Ile Asn His
85 90 95

Leu Lys Cys Val Leu Glu Glu Lys Leu Glu Cys Glu Asp Phe Thr Cys
100 105 110

Gly Lys Leu Met Ser Ser Leu His Leu Lys Arg Tyr Tyr Gly Arg Ile
115 120 125

Leu His Tyr Leu Lys Ala Lys Glu Tyr Ser His Cys Ala Trp Thr Ile
130 135 140

Val Arg Val Glu Ile Leu Arg Asn Phe Tyr Phe Ile Asn Arg Leu Thr
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Gly Tyr Leu Arg Asn
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Cys	Tyr	Asn	Leu	Leu	Gly	Phe	Leu	Gln	Arg	Ser	Ser	Asn	Phe	Gln	Ser
1				5					10					15	

Gln	Lys	Leu	Leu	Trp	Gln	Leu	Asn	Gly	Arg	Leu	Glu	Tyr	Cys	Leu	Lys
		20						25					30		

Asp	Arg	Met	Asn	Phe	Asp	Ile	Pro	Glu	Glu	Ile	Lys	Gln	Leu	Gln	Cys
		35					40					45			

Phe	Gln	Lys	Glu	Asp	Ala	Ala	Leu	Thr	Ile	Tyr	Glu	Met	Leu	Gln	Asn
	50					55					60				

Ile	Phe	Ala	Ile	Phe	Arg	Gln	Asp	Ser	Ser	Ser	Thr	Gly	Trp	Cys	Glu
65					70					75					80

Thr	Ile	Val	Glu	Asn	Leu	Leu	Ala	Asn	Val	Tyr	His	Gln	Ile	Asn	His
				85					90					95	

Leu Lys Thr Val Leu Glu Glu Lys Leu Glu Cys Glu Asp Phe Thr Cys
 100 105 110

Gly Lys Leu Met Ser Ser Leu His Leu Lys Arg Tyr Tyr Gly Arg Ile
 115 120 125

Leu Cys Tyr Leu Lys Ala Lys Glu Tyr Ser His Cys Ala Trp Thr Ile
 130 135 140

Val Arg Val Glu Ile Leu Arg Asn Phe Tyr Phe Ile Asn Arg Leu Thr
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Gly Tyr Leu Arg Asn
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Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg Leu Glu Tyr Cys Leu Lys
 20 25 30

Asp Arg Met Asn Phe Asp Ile Pro Glu Glu Ile Lys Gln Leu Gln Cys
 35 40 45

Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln Asn
 50 55 60

Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser Ser Thr Gly Trp Cys Glu
 65 70 75 80

Thr Ile Val Glu Asn Leu Leu Ala Asn Val Tyr His Gln Ile Asn His
 85 90 95

Leu Lys Thr Val Leu Glu Glu Lys Leu Glu Cys Glu Asp Phe Thr Cys
 100 105 110

Gly Lys Leu Met Ser Ser Leu His Leu Lys Arg Tyr Tyr Gly Arg Ile
 115 120 125

Leu His Tyr Leu Lys Ala Lys Cys Tyr Ser His Cys Ala Trp Thr Ile
 130 135 140

Val Arg Val Glu Ile Leu Arg Asn Phe Tyr Phe Ile Asn Arg Leu Thr
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Gly Tyr Leu Arg Asn
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Cys	Tyr	Asn	Leu	Leu	Gly	Phe	Leu	Gln	Arg	Ser	Ser	Asn	Phe	Gln	Ser
1				5					10					15	

Gln	Lys	Leu	Leu	Trp	Gln	Leu	Asn	Gly	Arg	Leu	Glu	Tyr	Cys	Leu	Lys
		20						25					30		

Asp	Arg	Met	Asn	Phe	Asp	Ile	Pro	Glu	Glu	Ile	Lys	Gln	Leu	Gln	Cys
		35					40					45			

Phe	Gln	Lys	Glu	Asp	Ala	Ala	Leu	Thr	Ile	Tyr	Glu	Met	Leu	Gln	Asn
	50					55					60				

Ile	Phe	Ala	Ile	Phe	Arg	Gln	Asp	Ser	Ser	Ser	Thr	Gly	Trp	Cys	Glu
65					70					75				80	

Thr	Ile	Val	Glu	Asn	Leu	Leu	Ala	Asn	Val	Tyr	His	Gln	Ile	Asn	His
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

85

90

95

Leu Lys Thr Val Leu Glu Glu Lys Leu Glu Cys Glu Asp Phe Thr Cys
 100 105 110

Gly Lys Leu Met Ser Ser Leu His Leu Lys Arg Tyr Tyr Gly Arg Ile
 115 120 125

Leu His Tyr Leu Lys Ala Lys Glu Tyr Ser Cys Cys Ala Trp Thr Ile
 130 135 140

Val Arg Val Glu Ile Leu Arg Asn Phe Tyr Phe Ile Asn Arg Leu Thr
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Gly Tyr Leu Arg Asn
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Cys Tyr Asn Leu Leu Gly Phe Leu Gln Arg Ser Ser Asn Phe Gln Ser
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Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg Leu Glu Tyr Cys Leu Lys
 20 25 30

Asp Arg Met Asn Phe Asp Ile Pro Glu Glu Ile Lys Gln Leu Gln Cys
 35 40 45

Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln Asn
 50 55 60

Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser Ser Thr Gly Trp Cys Glu
 65 70 75 80

Thr Ile Val Glu Asn Leu Leu Ala Asn Val Tyr His Gln Ile Asn His
 85 90 95

Leu Lys Thr Val Leu Glu Glu Lys Leu Glu Cys Glu Asp Phe Thr Cys
 100 105 110

Gly Lys Leu Met Ser Ser Leu His Leu Lys Arg Tyr Tyr Gly Arg Ile
 115 120 125

Leu His Tyr Leu Lys Ala Lys Glu Tyr Ser His Cys Ala Trp Thr Ile
 130 135 140

Val Arg Val Glu Ile Leu Arg Asn Phe Tyr Phe Ile Asn Arg Leu Thr
 145 150 155 160

Gly Tyr Leu Cys Asn
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Cys	Tyr	Asn	Leu	Leu	Gly	Phe	Leu	Gln	Arg	Ser	Ser	Asn	Phe	Gln	Ser
1				5					10					15	

Gln	Lys	Leu	Leu	Trp	Gln	Leu	Asn	Gly	Arg	Leu	Glu	Cys	Cys	Leu	Lys
		20						25					30		

Asp	Arg	Met	Asn	Phe	Asp	Ile	Pro	Glu	Glu	Ile	Lys	Gln	Leu	Gln	Cys
		35					40					45			

Phe	Gln	Lys	Glu	Asp	Ala	Ala	Leu	Thr	Ile	Tyr	Glu	Met	Leu	Gln	Asn
	50					55					60				

Ile	Phe	Ala	Ile	Phe	Arg	Gln	Asp	Ser	Ser	Ser	Thr	Gly	Trp	Cys	Glu
65					70					75					80

Thr Ile Val Glu Asn Leu Leu Ala Asn Val Tyr His Gln Ile Asn His
 85 90 95

Leu Lys Thr Val Leu Glu Glu Lys Leu Glu Cys Glu Asp Phe Thr Arg
 100 105 110

Gly Lys Leu Met Ser Ser Leu His Leu Lys Arg Tyr Tyr Gly Arg Ile
 115 120 125

Leu His Tyr Leu Lys Ala Lys Cys Tyr Ser His Cys Ala Trp Thr Ile
 130 135 140

Val Arg Val Glu Ile Leu Arg Asn Phe Tyr Phe Ile Asn Arg Leu Thr
 145 150 155 160

Gly Tyr Leu Arg Asn
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Cys Tyr Asn Leu Leu Gly Phe Leu Gln Arg Ser Ser Asn Phe Gln Ser
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Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg Leu Glu Tyr Cys Leu Lys
 20 25 30

Asp Arg Cys Asn Phe Asp Ile Pro Glu Glu Ile Lys Gln Leu Gln Cys
 35 40 45

Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln Asn
 50 55 60

Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser Ser Thr Gly Trp Cys Glu
 65 70 75 80

Thr Ile Val Glu Asn Leu Leu Ala Asn Val Tyr His Gln Ile Asn His
 85 90 95

Leu Lys Thr Val Leu Glu Glu Lys Leu Glu Cys Glu Asp Phe Thr Arg
 100 105 110

Gly Lys Leu Met Ser Ser Leu His Leu Lys Arg Tyr Tyr Gly Arg Ile
 115 120 125

Leu His Tyr Leu Lys Ala Lys Cys Tyr Ser His Cys Ala Trp Thr Ile
 130 135 140

Val Arg Val Glu Ile Leu Arg Asn Phe Tyr Phe Ile Asn Arg Leu Thr
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Gly Tyr Leu Arg Asn
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Cys	Tyr	Asn	Leu	Leu	Gly	Phe	Leu	Gln	Arg	Ser	Ser	Asn	Phe	Gln	Ser
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Gln	Lys	Leu	Leu	Trp	Gln	Leu	Asn	Gly	Arg	Leu	Glu	Tyr	Cys	Leu	Lys
		20						25					30		

Asp	Arg	Met	Asn	Phe	Asp	Ile	Pro	Cys	Glu	Ile	Lys	Gln	Leu	Gln	Cys
		35					40					45			

Phe	Gln	Lys	Glu	Asp	Ala	Ala	Leu	Thr	Ile	Tyr	Glu	Met	Leu	Gln	Asn
	50					55					60				

Ile	Phe	Ala	Ile	Phe	Arg	Gln	Asp	Ser	Ser	Ser	Thr	Gly	Trp	Cys	Glu
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

65		70		75		80									
Thr	Ile	Val	Glu	Asn	Leu	Leu	Ala	Asn	Val	Tyr	His	Gln	Ile	Asn	His
				85					90					95	
Leu	Lys	Thr	Val	Leu	Glu	Glu	Lys	Leu	Glu	Cys	Glu	Asp	Phe	Thr	Arg
			100					105					110		
Gly	Lys	Leu	Met	Ser	Ser	Leu	His	Leu	Lys	Arg	Tyr	Tyr	Gly	Arg	Ile
		115					120					125			
Leu	His	Tyr	Leu	Lys	Ala	Lys	Cys	Tyr	Ser	His	Cys	Ala	Trp	Thr	Ile
	130					135					140				
Val	Arg	Val	Glu	Ile	Leu	Arg	Asn	Phe	Tyr	Phe	Ile	Asn	Arg	Leu	Thr
145					150					155					160
Gly	Tyr	Leu	Arg	Asn											
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Cys	Tyr	Asn	Leu	Leu	Gly	Phe	Leu	Gln	Arg	Ser	Ser	Asn	Phe	Gln	Ser
1				5					10					15	

Gln	Lys	Leu	Leu	Trp	Gln	Leu	Asn	Gly	Arg	Leu	Glu	Tyr	Cys	Leu	Lys
		20						25					30		

Asp	Arg	Met	Asn	Phe	Asp	Ile	Pro	Glu	Glu	Ile	Lys	Gln	Leu	Gln	Cys
		35					40					45			

Phe	Gln	Lys	Glu	Asp	Ala	Ala	Leu	Thr	Ile	Tyr	Glu	Met	Leu	Gln	Asn
	50					55					60				

Ile	Phe	Ala	Ile	Phe	Arg	Gln	Asp	Ser	Ser	Cys	Thr	Gly	Trp	Cys	Glu
65					70					75					80

Thr	Ile	Val	Glu	Asn	Leu	Leu	Ala	Asn	Val	Tyr	His	Gln	Ile	Asn	His
			85						90					95	

Leu	Lys	Thr	Val	Leu	Glu	Glu	Lys	Leu	Glu	Cys	Glu	Asp	Phe	Thr	Arg
			100					105					110		

Gly	Lys	Leu	Met	Ser	Ser	Leu	His	Leu	Lys	Arg	Tyr	Tyr	Gly	Arg	Ile
		115					120					125			

Leu	His	Tyr	Leu	Lys	Ala	Lys	Cys	Tyr	Ser	His	Cys	Ala	Trp	Thr	Ile
	130					135					140				

Val	Arg	Val	Glu	Ile	Leu	Arg	Asn	Phe	Tyr	Phe	Ile	Asn	Arg	Leu	Thr
145					150					155					160

Gly	Tyr	Leu	Arg	Asn
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Cys Tyr Asn Leu Leu Gly Phe Leu Gln Arg Ser Ser Asn Phe Gln Ser
 1 5 10 15

Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg Leu Cys Tyr Cys Leu Lys
 20 25 30

Asp Arg Met Asn Phe Asp Ile Pro Glu Glu Ile Lys Gln Leu Gln Cys
 35 40 45

Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln Asn
 50 55 60

Ile Phe Ala Ile Phe Cys Gln Asp Ser Ser Ser Thr Gly Trp Cys Glu
 65 70 75 80

Thr Ile Val Glu Asn Leu Leu Ala Asn Val Tyr His Gln Ile Asn His
 85 90 95

Leu Lys Thr Val Leu Glu Glu Lys Leu Glu Lys Glu Asp Phe Thr Arg
 100 105 110

Gly Lys Leu Met Ser Ser Leu His Leu Lys Arg Tyr Tyr Gly Arg Ile
 115 120 125

Leu His Tyr Leu Lys Ala Lys Glu Tyr Ser His Cys Ala Trp Thr Ile
 130 135 140

Val Arg Val Glu Ile Leu Arg Asn Phe Tyr Phe Ile Asn Arg Leu Thr
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Gly Tyr Leu Arg Asn
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1 5 10 15

Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg Leu Glu Tyr Cys Leu Lys
20 25 30

Asp Arg Met Asn Phe Asp Ile Pro Glu Glu Ile Lys Gln Leu Gln Cys
35 40 45

Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln Asn
50 55 60

Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser Ser Thr Gly Trp Cys Glu
65 70 75 80

Thr Ile Val Glu Asn Leu Leu Ala Asn Val Tyr His Gln Ile Asn His
85 90 95

Leu Lys Thr Val Leu Glu Glu Lys Leu Glu Cys Glu Asp Phe Thr Cys
100 105 110

Gly Lys Leu Met Ser Ser Leu His Leu Lys Arg Tyr Tyr Gly Arg Ile
115 120 125

Leu His Tyr Leu Lys Ala Lys Glu Tyr Ser His Cys Ala Trp Thr Ile
130 135 140

Val Arg Val Glu Ile Leu Arg Asn Phe Tyr Phe Ile Asn Arg Leu Thr
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Gly Tyr Leu Arg Asn
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Cys Tyr Asn Leu Leu Gly Phe Leu Gln Arg Ser Ser Asn Phe Gln Ser
 1 5 10 15

Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg Leu Glu Tyr Cys Leu Lys
 20 25 30

Asp Arg Met Asn Phe Asp Ile Pro Glu Glu Ile Lys Gln Leu Gln Cys
 35 40 45

Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln Asn
 50 55 60

Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser Ser Thr Gly Trp Cys Glu
 65 70 75 80

Thr Ile Val Glu Asn Leu Leu Ala Asn Val Tyr His Gln Ile Asn His
 85 90 95

Leu Lys Thr Val Leu Glu Glu Lys Leu Glu Cys Glu Asp Phe Thr Arg
 100 105 110

Gly Lys Leu Met Ser Ser Leu His Leu Lys Arg Tyr Tyr Gly Arg Ile
 115 120 125

Leu His Tyr Leu Lys Ala Lys Glu Tyr Ser His Cys Ala Trp Thr Ile

130 135 140
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 Gly Tyr Leu Arg Asn
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 Cys Tyr Cys Leu Leu Gly Phe Leu Gln Arg Ser Ser Asn Phe Gln Ser
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 Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg Leu Glu Tyr Cys Leu Lys
 20 25 30

 Asp Arg Met Asn Phe Asp Ile Pro Glu Glu Ile Lys Gln Leu Gln Cys
 35 40 45

 Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln Asn

50					55					60					
Ile	Phe	Ala	Ile	Phe	Arg	Gln	Asp	Ser	Ser	Ser	Thr	Gly	Trp	Cys	Glu
65					70					75					80
Thr	Ile	Val	Glu	Asn	Leu	Leu	Ala	Asn	Val	Tyr	His	Gln	Ile	Asn	His
				85					90					95	
Leu	Lys	Thr	Val	Leu	Glu	Glu	Lys	Leu	Glu	Lys	Glu	Asp	Phe	Thr	Arg
			100					105					110		
Gly	Lys	Leu	Met	Ser	Ser	Leu	His	Leu	Lys	Arg	Tyr	Tyr	Gly	Arg	Ile
		115					120					125			
Leu	His	Tyr	Leu	Lys	Ala	Lys	Glu	Tyr	Ser	His	Cys	Ala	Trp	Thr	Ile
	130					135					140				
Val	Arg	Val	Glu	Ile	Leu	Arg	Asn	Phe	Tyr	Phe	Ile	Asn	Arg	Leu	Thr
145					150					155					160
Gly	Tyr	Leu	Arg	Asn											
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Gln	Lys	Leu	Leu	Trp	Gln	Leu	Asn	Gly	Arg	Leu	Glu	Tyr	Cys	Leu	Lys
		20						25					30		

Asp	Arg	Met	Asn	Phe	Asp	Ile	Pro	Glu	Glu	Ile	Lys	Gln	Leu	Gln	Gln
		35					40					45			

Phe	Gln	Lys	Glu	Asp	Ala	Ala	Leu	Thr	Ile	Tyr	Glu	Met	Leu	Gln	Asn
	50					55					60				

Ile	Phe	Ala	Ile	Phe	Arg	Gln	Asp	Ser	Ser	Ser	Thr	Gly	Trp	Cys	Glu
65					70					75					80

Thr	Ile	Val	Glu	Asn	Leu	Leu	Ala	Asn	Val	Tyr	His	Gln	Ile	Asn	His
				85					90					95	

Leu	Lys	Thr	Val	Leu	Glu	Glu	Lys	Leu	Glu	Cys	Glu	Asp	Phe	Thr	Arg
			100					105					110		

Gly	Lys	Leu	Met	Ser	Ser	Leu	His	Leu	Lys	Arg	Tyr	Tyr	Gly	Arg	Ile
		115					120					125			

Leu	His	Tyr	Leu	Lys	Ala	Lys	Cys	Tyr	Ser	His	Cys	Ala	Trp	Thr	Ile
	130					135					140				

Val	Arg	Val	Glu	Ile	Leu	Arg	Asn	Phe	Tyr	Phe	Ile	Asn	Arg	Leu	Thr
145					150					155					160

Gly	Tyr	Leu	Arg	Asn
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Ser Tyr Asn Leu Leu Gly Phe Leu Gln Arg Ser Ser Asn Phe Gln Ser
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Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg Leu Glu Tyr Cys Leu Lys
 20 25 30

Asp Arg Met Asn Phe Asp Ile Pro Cys Glu Ile Lys Gln Leu Gln Gln
 35 40 45

Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln Asn
 50 55 60

Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser Cys Thr Gly Trp Cys Glu
 65 70 75 80

Thr Ile Val Glu Asn Leu Leu Ala Asn Val Tyr His Gln Ile Asn His

85

90

95

Leu Lys Thr Val Leu Glu Cys Lys Leu Glu Cys Glu Asp Phe Thr Arg
 100 105 110

Gly Lys Leu Met Ser Ser Leu His Leu Lys Arg Tyr Tyr Gly Arg Ile
 115 120 125

Leu His Tyr Leu Lys Ala Lys Cys Tyr Ser His Cys Ala Trp Thr Ile
 130 135 140

Val Arg Val Glu Ile Leu Arg Asn Phe Tyr Phe Ile Asn Arg Leu Thr
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Gly Tyr Leu Arg Asn
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Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg Leu Glu Tyr Cys Leu Lys
 20 25 30

Asp Arg Met Asn Phe Asp Ile Pro Cys Glu Ile Lys Gln Leu Gln Gln
 35 40 45

Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln Asn
 50 55 60

Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser Cys Thr Gly Trp Cys Glu
 65 70 75 80

Thr Ile Val Glu Asn Leu Leu Ala Asn Val Tyr His Gln Ile Asn His
 85 90 95

Leu Lys Thr Val Leu Glu Glu Lys Leu Cys Cys Glu Asp Phe Thr Arg
 100 105 110

Gly Lys Leu Met Ser Ser Leu His Leu Lys Arg Tyr Tyr Gly Arg Ile
 115 120 125

Leu His Tyr Leu Lys Ala Lys Cys Tyr Ser His Cys Ala Trp Thr Ile
 130 135 140

Val Arg Val Glu Ile Leu Arg Asn Phe Tyr Phe Ile Asn Arg Leu Thr
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Gly Tyr Leu Arg Asn
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Ser	Tyr	Asn	Leu	Leu	Gly	Phe	Leu	Gln	Arg	Ser	Ser	Asn	Phe	Gln	Ser
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Gln	Lys	Leu	Leu	Trp	Gln	Leu	Asn	Gly	Arg	Leu	Glu	Tyr	Cys	Leu	Lys
		20						25					30		

Asp	Arg	Met	Asn	Phe	Asp	Ile	Pro	Cys	Glu	Ile	Lys	Gln	Leu	Gln	Gln
		35					40					45			

Phe	Gln	Lys	Glu	Asp	Ala	Ala	Leu	Thr	Ile	Tyr	Glu	Met	Leu	Gln	Asn
	50					55					60				

Ile	Phe	Ala	Ile	Phe	Arg	Gln	Asp	Ser	Ser	Cys	Thr	Gly	Trp	Cys	Glu
65					70					75				80	

Thr Ile Val Glu Asn Leu Leu Ala Asn Val Tyr His Gln Ile Asn His
 85 90 95

Leu Lys Thr Val Leu Glu Glu Lys Leu Glu Cys Glu Cys Phe Thr Arg
 100 105 110

Gly Lys Leu Met Ser Ser Leu His Leu Lys Arg Tyr Tyr Gly Arg Ile
 115 120 125

Leu His Tyr Leu Lys Ala Lys Cys Tyr Ser His Cys Ala Trp Thr Ile
 130 135 140

Val Arg Val Glu Ile Leu Arg Asn Phe Tyr Phe Ile Asn Arg Leu Thr
 145 150 155 160

Gly Tyr Leu Arg Asn
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Ser Tyr Asn Leu Leu Gly Phe Leu Gln Arg Ser Ser Asn Phe Gln Ser
 1 5 10 15

Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg Leu Glu Tyr Cys Leu Lys
 20 25 30

Asp Arg Met Asn Phe Asp Ile Pro Cys Glu Ile Lys Gln Leu Gln Gln
 35 40 45

Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln Asn
 50 55 60

Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser Cys Thr Gly Trp Cys Glu
 65 70 75 80

Thr Ile Val Glu Asn Leu Leu Ala Asn Val Tyr His Gln Ile Asn His
 85 90 95

Leu Lys Thr Val Leu Glu Glu Lys Leu Glu Cys Glu Asp Phe Thr Cys
 100 105 110

Gly Lys Leu Met Ser Ser Leu His Leu Lys Arg Tyr Tyr Gly Arg Ile
 115 120 125

Leu His Tyr Leu Lys Ala Lys Cys Tyr Ser His Cys Ala Trp Thr Ile
 130 135 140

Val Arg Val Glu Ile Leu Arg Asn Phe Tyr Phe Ile Asn Arg Leu Thr
 145 150 155 160

Gly Tyr Leu Arg Asn
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<222> (30)..(140)

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Ser Tyr Asn Leu Leu Gly Phe Leu Gln Arg Ser Ser Asn Phe Gln Ser
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Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg Leu Glu Tyr Cys Leu Lys
20 25 30

Asp Arg Met Asn Phe Asp Ile Pro Cys Glu Ile Lys Gln Leu Gln Gln
35 40 45

Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln Asn
50 55 60

Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser Cys Thr Gly Trp Cys Glu

65

70

75

80

Thr Ile Val Glu Asn Leu Leu Ala Asn Val Tyr His Gln Ile Asn His
 85 90 95

Leu Lys Thr Val Leu Glu Glu Lys Leu Glu Cys Glu Asp Phe Thr Arg
 100 105 110

Gly Lys Cys Met Ser Ser Leu His Leu Lys Arg Tyr Tyr Gly Arg Ile
 115 120 125

Leu His Tyr Leu Lys Ala Lys Cys Tyr Ser His Cys Ala Trp Thr Ile
 130 135 140

Val Arg Val Glu Ile Leu Arg Asn Phe Tyr Phe Ile Asn Arg Leu Thr
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Gly Tyr Leu Arg Asn
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<222> (30)..(140)

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Ser	Tyr	Asn	Leu	Leu	Gly	Phe	Leu	Gln	Arg	Ser	Ser	Asn	Phe	Gln	Ser
1				5					10					15	

Gln	Lys	Leu	Leu	Trp	Gln	Leu	Asn	Gly	Arg	Leu	Glu	Tyr	Cys	Leu	Lys
		20						25					30		

Asp	Arg	Met	Asn	Phe	Asp	Ile	Pro	Cys	Glu	Ile	Lys	Gln	Leu	Gln	Gln
		35					40					45			

Phe	Gln	Lys	Glu	Asp	Ala	Ala	Leu	Thr	Ile	Tyr	Glu	Met	Leu	Gln	Asn
	50					55					60				

Ile	Phe	Ala	Ile	Phe	Arg	Gln	Asp	Ser	Ser	Cys	Thr	Gly	Trp	Cys	Glu
65					70					75					80

Thr	Ile	Val	Glu	Asn	Leu	Leu	Ala	Asn	Val	Tyr	His	Gln	Ile	Asn	His
			85						90					95	

Leu	Lys	Thr	Val	Leu	Glu	Glu	Lys	Leu	Glu	Cys	Glu	Asp	Phe	Thr	Arg
			100					105					110		

Gly	Lys	Leu	Met	Ser	Ser	Cys	His	Leu	Lys	Arg	Tyr	Tyr	Gly	Arg	Ile
		115					120					125			

Leu	His	Tyr	Leu	Lys	Ala	Lys	Cys	Tyr	Ser	His	Cys	Ala	Trp	Thr	Ile
	130					135					140				

Val	Arg	Val	Glu	Ile	Leu	Arg	Asn	Phe	Tyr	Phe	Ile	Asn	Arg	Leu	Thr
145					150					155					160

Gly	Tyr	Leu	Arg	Asn
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Ser Tyr Asn Leu Leu Gly Phe Leu Gln Arg Ser Ser Asn Phe Gln Ser
 1 5 10 15

Gln Lys Leu Leu Trp Gln Leu Cys Gly Arg Leu Glu Tyr Cys Leu Lys
 20 25 30

Asp Arg Met Asn Phe Asp Ile Pro Glu Glu Ile Lys Gln Leu Gln Gln
 35 40 45

Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln Asn
 50 55 60

Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser Ser Thr Gly Trp Cys Glu
 65 70 75 80

Thr Ile Val Glu Asn Leu Leu Ala Asn Val Tyr His Gln Ile Asn His
 85 90 95

Leu Lys Thr Val Leu Glu Glu Lys Leu Glu Cys Glu Asp Phe Thr Cys
 100 105 110

Gly Lys Leu Met Ser Ser Leu His Leu Lys Arg Tyr Tyr Gly Arg Ile
 115 120 125

Leu His Tyr Leu Lys Ala Lys Cys Tyr Ser His Cys Ala Trp Thr Ile
 130 135 140

Val Arg Val Glu Ile Leu Arg Asn Phe Tyr Phe Ile Asn Arg Leu Thr
 145 150 155 160

Gly Tyr Leu Arg Asn
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<210> 71
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Ser Tyr Asn Leu Leu Gly Phe Leu Gln Arg Ser Ser Asn Phe Gln Ser
1 5 10 15

Gln Lys Leu Leu Trp Gln Leu Asn Cys Arg Leu Glu Tyr Cys Leu Lys
20 25 30

Asp Arg Met Asn Phe Asp Ile Pro Glu Glu Ile Lys Gln Leu Gln Gln
35 40 45

Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln Asn
50 55 60

Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser Ser Thr Gly Trp Cys Glu
65 70 75 80

Thr Ile Val Glu Asn Leu Leu Ala Asn Val Tyr His Gln Ile Asn His
85 90 95

Leu Lys Thr Val Leu Glu Glu Lys Leu Glu Cys Glu Asp Phe Thr Cys
100 105 110

Gly Lys Leu Met Ser Ser Leu His Leu Lys Arg Tyr Tyr Gly Arg Ile
115 120 125

Leu His Tyr Leu Lys Ala Lys Cys Tyr Ser His Cys Ala Trp Thr Ile
130 135 140

Val Arg Val Glu Ile Leu Arg Asn Phe Tyr Phe Ile Asn Arg Leu Thr
145 150 155 160

Gly Tyr Leu Arg Asn
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<222> (30)..(140)

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Ser	Tyr	Asn	Leu	Leu	Gly	Phe	Leu	Gln	Arg	Ser	Ser	Asn	Phe	Gln	Ser
1				5					10					15	

Gln	Lys	Leu	Leu	Trp	Gln	Leu	Asn	Gly	Arg	Leu	Glu	Tyr	Cys	Leu	Cys
		20						25					30		

Asp	Arg	Met	Asn	Phe	Asp	Ile	Pro	Glu	Glu	Ile	Lys	Gln	Leu	Gln	Gln
		35					40					45			

Phe	Gln	Lys	Glu	Asp	Ala	Ala	Leu	Thr	Ile	Tyr	Glu	Met	Leu	Gln	Asn
	50					55					60				

Ile	Phe	Ala	Ile	Phe	Arg	Gln	Asp	Ser	Ser	Ser	Thr	Gly	Trp	Cys	Glu
65					70					75					80

Thr	Ile	Val	Glu	Asn	Leu	Leu	Ala	Asn	Val	Tyr	His	Gln	Ile	Asn	His
				85					90					95	

Leu	Lys	Thr	Val	Leu	Glu	Glu	Lys	Leu	Glu	Cys	Glu	Asp	Phe	Thr	Cys
			100					105					110		

Gly	Lys	Leu	Met	Ser	Ser	Leu	His	Leu	Lys	Arg	Tyr	Tyr	Gly	Arg	Ile
		115					120					125			

Leu His Tyr Leu Lys Ala Lys Cys Tyr Ser His Cys Ala Trp Thr Ile
 130 135 140

Val Arg Val Glu Ile Leu Arg Asn Phe Tyr Phe Ile Asn Arg Leu Thr
 145 150 155 160

Gly Tyr Leu Arg Asn
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Ser Tyr Asn Leu Leu Gly Phe Leu Gln Arg Ser Ser Asn Phe Gln Ser
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Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg Leu Glu Tyr Cys Leu Lys
 20 25 30

Asp Arg Cys Asn Phe Asp Ile Pro Glu Glu Ile Lys Gln Leu Gln Gln
 35 40 45

Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln Asn
 50 55 60

Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser Ser Thr Gly Trp Cys Glu
 65 70 75 80

Thr Ile Val Glu Asn Leu Leu Ala Asn Val Tyr His Gln Ile Asn His
 85 90 95

Leu Lys Thr Val Leu Glu Glu Lys Leu Glu Cys Glu Asp Phe Thr Cys
 100 105 110

Gly Lys Leu Met Ser Ser Leu His Leu Lys Arg Tyr Tyr Gly Arg Ile
 115 120 125

Leu His Tyr Leu Lys Ala Lys Cys Tyr Ser His Cys Ala Trp Thr Ile
 130 135 140

Val Arg Val Glu Ile Leu Arg Asn Phe Tyr Phe Ile Asn Arg Leu Thr
 145 150 155 160

Gly Tyr Leu Arg Asn
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<210> 74
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<222> (30)..(140)

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Ser	Tyr	Asn	Leu	Leu	Gly	Phe	Leu	Gln	Arg	Ser	Ser	Asn	Phe	Gln	Ser
1				5					10					15	

Gln	Lys	Leu	Leu	Trp	Gln	Leu	Asn	Gly	Arg	Leu	Glu	Tyr	Cys	Leu	Lys
			20					25					30		

Asp	Arg	Met	Asn	Phe	Cys	Ile	Pro	Glu	Glu	Ile	Lys	Gln	Leu	Gln	Gln
		35					40					45			

Phe	Gln	Lys	Glu	Asp	Ala	Ala	Leu	Thr	Ile	Tyr	Glu	Met	Leu	Gln	Asn
	50					55					60				

Ile	Phe	Ala	Ile	Phe	Arg	Gln	Asp	Ser	Ser	Ser	Thr	Gly	Trp	Cys	Glu
65					70					75					80

Thr	Ile	Val	Glu	Asn	Leu	Leu	Ala	Asn	Val	Tyr	His	Gln	Ile	Asn	His
				85					90					95	

Leu	Lys	Thr	Val	Leu	Glu	Glu	Lys	Leu	Glu	Cys	Glu	Asp	Phe	Thr	Cys
			100					105					110		

Gly	Lys	Leu	Met	Ser	Ser	Leu	His	Leu	Lys	Arg	Tyr	Tyr	Gly	Arg	Ile
		115					120					125			

Leu	His	Tyr	Leu	Lys	Ala	Lys	Cys	Tyr	Ser	His	Cys	Ala	Trp	Thr	Ile
	130					135					140				

Val	Arg	Val	Glu	Ile	Leu	Arg	Asn	Phe	Tyr	Phe	Ile	Asn	Arg	Leu	Thr
145					150					155					160

Gly Tyr Leu Arg Asn
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Ser Tyr Asn Leu Leu Gly Phe Leu Gln Arg Ser Ser Asn Phe Gln Ser
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Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg Leu Glu Tyr Cys Leu Lys
20 25 30

Asp Arg Met Asn Phe Asp Ile Pro Cys Glu Ile Lys Gln Leu Gln Gln
35 40 45

Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln Asn
50 55 60

Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser Ser Thr Gly Trp Cys Glu
65 70 75 80

Thr Ile Val Glu Asn Leu Leu Ala Asn Val Tyr His Gln Ile Asn His
85 90 95

Leu Lys Thr Val Leu Glu Glu Lys Leu Glu Cys Glu Asp Phe Thr Cys
100 105 110

Gly Lys Leu Met Ser Ser Leu His Leu Lys Arg Tyr Tyr Gly Arg Ile
115 120 125

Leu His Tyr Leu Lys Ala Lys Cys Tyr Ser His Cys Ala Trp Thr Ile
130 135 140

Val Arg Val Glu Ile Leu Arg Asn Phe Tyr Phe Ile Asn Arg Leu Thr
145 150 155 160

Gly Tyr Leu Arg Asn
165

<210> 76
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Ser	Tyr	Asn	Leu	Leu	Gly	Cys	Leu	Gln	Arg	Ser	Ser	Asn	Phe	Gln	Ser
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Gln	Lys	Leu	Leu	Trp	Gln	Leu	Asn	Gly	Arg	Leu	Glu	Tyr	Cys	Leu	Lys
		20					25						30		

Asp	Arg	Met	Asn	Phe	Asp	Ile	Pro	Glu	Glu	Ile	Lys	Gln	Leu	Gln	Gln
		35					40					45			

Phe	Gln	Lys	Glu	Asp	Ala	Ala	Leu	Thr	Ile	Tyr	Glu	Met	Leu	Gln	Asn
	50					55					60				

Ile	Phe	Ala	Ile	Phe	Arg	Gln	Asp	Ser	Ser	Ser	Thr	Gly	Trp	Cys	Glu
65					70					75					80

Thr	Ile	Val	Glu	Asn	Leu	Leu	Ala	Asn	Val	Tyr	His	Gln	Ile	Asn	His
				85					90					95	

Leu	Lys	Thr	Val	Leu	Glu	Glu	Lys	Leu	Glu	Cys	Glu	Asp	Phe	Thr	Cys
			100					105					110		

Gly	Lys	Leu	Met	Ser	Ser	Leu	His	Leu	Lys	Arg	Tyr	Tyr	Gly	Arg	Ile
		115					120					125			

Leu	His	Tyr	Leu	Lys	Ala	Lys	Cys	Tyr	Ser	His	Cys	Ala	Trp	Thr	Ile
	130					135					140				

Val	Arg	Val	Glu	Ile	Leu	Arg	Asn	Phe	Tyr	Phe	Ile	Asn	Arg	Leu	Thr
145					150					155					160

Gly	Tyr	Leu	Arg	Asn
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<210> 77

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<222> (30)..(140)

<400> 77

Ser	Tyr	Asn	Leu	Leu	Gly	Phe	Leu	Gln	Arg	Ser	Ser	Asn	Phe	Gln	Ser
1				5					10					15	

Gln	Lys	Leu	Leu	Trp	Gln	Leu	Asn	Gly	Arg	Leu	Glu	Tyr	Cys	Leu	Lys
		20						25					30		

Asp	Arg	Met	Asn	Phe	Asp	Ile	Pro	Glu	Glu	Ile	Lys	Gln	Leu	Gln	Cys
		35					40					45			

Phe	Gln	Lys	Glu	Asp	Ala	Ala	Leu	Thr	Ile	Tyr	Glu	Met	Leu	Gln	Asn
	50					55					60				

Ile	Phe	Ala	Ile	Phe	Arg	Gln	Asp	Ser	Ser	Ser	Thr	Gly	Trp	Cys	Glu
65					70					75					80

Thr	Ile	Val	Glu	Asn	Leu	Leu	Ala	Asn	Val	Tyr	His	Gln	Ile	Asn	His
				85					90					95	

Leu	Lys	Thr	Val	Leu	Glu	Glu	Lys	Leu	Glu	Cys	Glu	Asp	Phe	Thr	Cys
			100					105					110		

Gly Lys Leu Met Ser Ser Leu His Leu Lys Arg Tyr Tyr Gly Arg Ile
 115 120 125

Leu His Tyr Leu Lys Ala Lys Cys Tyr Ser His Cys Ala Trp Thr Ile
 130 135 140

Val Arg Val Glu Ile Leu Arg Asn Phe Tyr Phe Ile Asn Arg Leu Thr
 145 150 155 160

Gly Tyr Leu Arg Asn
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<210> 78
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Ser Tyr Asn Leu Leu Gly Phe Leu Gln Arg Ser Ser Asn Phe Gln Ser
 1 5 10 15

Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg Leu Glu Tyr Cys Leu Lys
 20 25 30

Asp Arg Met Asn Phe Asp Ile Pro Glu Glu Ile Lys Gln Leu Gln Gln
 35 40 45

Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln Asn
 50 55 60

Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser Cys Thr Gly Trp Cys Glu
 65 70 75 80

Thr Ile Val Glu Asn Leu Leu Ala Asn Val Tyr His Gln Ile Asn His
 85 90 95

Leu Lys Thr Val Leu Glu Glu Lys Leu Glu Cys Glu Asp Phe Thr Cys
 100 105 110

Gly Lys Leu Met Ser Ser Leu His Leu Lys Arg Tyr Tyr Gly Arg Ile
 115 120 125

Leu His Tyr Leu Lys Ala Lys Cys Tyr Ser His Cys Ala Trp Thr Ile
 130 135 140

Val Arg Val Glu Ile Leu Arg Asn Phe Tyr Phe Ile Asn Arg Leu Thr
 145 150 155 160

Gly Tyr Leu Arg Asn
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<400> 79

Ser Tyr Asn Leu Leu Gly Phe Leu Gln Arg Ser Ser Asn Phe Gln Ser
 1 5 10 15

Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg Leu Glu Tyr Cys Leu Lys
 20 25 30

Asp Arg Met Asn Phe Asp Ile Pro Cys Glu Ile Lys Gln Leu Gln Gln
 35 40 45

Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln Asn
 50 55 60

Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser Cys Thr Gly Trp Cys Glu
 65 70 75 80

Thr Ile Val Glu Asn Leu Leu Ala Asn Val Tyr His Gln Ile Asn His
 85 90 95

Leu Lys Thr Val Leu Glu Glu Lys Leu Glu Cys Glu Asp Phe Thr Arg
 100 105 110

Gly Lys Leu Met Ser Ser Leu His Leu Lys Arg Tyr Tyr Gly Arg Ile
 115 120 125

Leu His Tyr Leu Lys Ala Lys Cys Tyr Ser His Cys Ala Trp Thr Ile
 130 135 140

Val Arg Val Glu Ile Leu Arg Asn Phe Tyr Phe Ile Asn Arg Leu Thr
 145 150 155 160

Gly Tyr Leu Arg Asn
 165

<210> 80
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<400> 80

Ser Tyr Asn Leu Leu Gly Phe Leu Gln Arg Ser Ser Asn Phe Gln Ser
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Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg Leu Glu Tyr Cys Leu Lys
 20 25 30

Asp Arg Met Asn Phe Asp Ile Pro Glu Cys Ile Lys Gln Leu Gln Gln
 35 40 45

Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln Asn
 50 55 60

Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser Cys Thr Gly Trp Cys Glu
 65 70 75 80

Thr Ile Val Glu Asn Leu Leu Ala Asn Val Tyr His Gln Ile Asn His
 85 90 95

Leu Lys Thr Val Leu Glu Glu Lys Leu Glu Cys Glu Asp Phe Thr Arg
 100 105 110

Gly Lys Leu Met Ser Ser Leu His Leu Lys Arg Tyr Tyr Gly Arg Ile
 115 120 125

Leu His Tyr Leu Lys Ala Lys Cys Tyr Ser His Cys Ala Trp Thr Ile
 130 135 140

Val Arg Val Glu Ile Leu Arg Asn Phe Tyr Phe Ile Asn Arg Leu Thr
 145 150 155 160

Gly Tyr Leu Arg Asn
 165

<210> 81
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<400> 81

Ser Tyr Asn Leu Leu Gly Phe Leu Gln Arg Ser Ser Asn Phe Gln Ser
 1 5 10 15

Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg Leu Glu Tyr Cys Leu Lys
 20 25 30

Asp Arg Met Asn Phe Asp Ile Pro Glu Glu Ile Lys Cys Leu Gln Gln
 35 40 45

Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln Asn
 50 55 60

Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser Cys Thr Gly Trp Cys Glu
 65 70 75 80

Thr Ile Val Glu Asn Leu Leu Ala Asn Val Tyr His Gln Ile Asn His
 85 90 95

Leu Lys Thr Val Leu Glu Glu Lys Leu Glu Cys Glu Asp Phe Thr Arg
 100 105 110

Gly Lys Leu Met Ser Ser Leu His Leu Lys Arg Tyr Tyr Gly Arg Ile
 115 120 125

Leu His Tyr Leu Lys Ala Lys Cys Tyr Ser His Cys Ala Trp Thr Ile
 130 135 140

Val Arg Val Glu Ile Leu Arg Asn Phe Tyr Phe Ile Asn Arg Leu Thr
 145 150 155 160

Gly Tyr Leu Arg Asn
 165

<210> 82
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Ser Tyr Asn Leu Leu Gly Phe Leu Gln Arg Ser Ser Asn Phe Gln Ser
 1 5 10 15

Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg Leu Glu Tyr Cys Leu Lys
 20 25 30

Asp Arg Met Asn Phe Asp Ile Pro Glu Glu Ile Lys Gln Cys Gln Gln
 35 40 45

Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln Asn
 50 55 60

Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser Cys Thr Gly Trp Cys Glu
 65 70 75 80

Thr Ile Val Glu Asn Leu Leu Ala Asn Val Tyr His Gln Ile Asn His
 85 90 95

Leu Lys Thr Val Leu Glu Glu Lys Leu Glu Cys Glu Asp Phe Thr Arg
 100 105 110

Gly Lys Leu Met Ser Ser Leu His Leu Lys Arg Tyr Tyr Gly Arg Ile
 115 120 125

Leu His Tyr Leu Lys Ala Lys Cys Tyr Ser His Cys Ala Trp Thr Ile
 130 135 140

Val Arg Val Glu Ile Leu Arg Asn Phe Tyr Phe Ile Asn Arg Leu Thr
 145 150 155 160

Gly Tyr Leu Arg Asn
 165

<210> 83
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Ser Tyr Asn Leu Leu Gly Phe Leu Gln Arg Ser Ser Asn Phe Gln Ser
 1 5 10 15

Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg Leu Glu Tyr Cys Leu Lys
 20 25 30

Asp Arg Met Asn Phe Asp Ile Pro Glu Glu Ile Lys Gln Leu Cys Gln
 35 40 45

Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln Asn
 50 55 60

Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser Cys Thr Gly Trp Cys Glu
 65 70 75 80

Thr Ile Val Glu Asn Leu Leu Ala Asn Val Tyr His Gln Ile Asn His
 85 90 95

Leu Lys Thr Val Leu Glu Glu Lys Leu Glu Cys Glu Asp Phe Thr Arg
 100 105 110

Gly Lys Leu Met Ser Ser Leu His Leu Lys Arg Tyr Tyr Gly Arg Ile
 115 120 125

Leu His Tyr Leu Lys Ala Lys Cys Tyr Ser His Cys Ala Trp Thr Ile
 130 135 140

Val Arg Val Glu Ile Leu Arg Asn Phe Tyr Phe Ile Asn Arg Leu Thr
 145 150 155 160

Gly Tyr Leu Arg Asn
 165

<210> 84

<211> 165

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Ser Tyr Asn Leu Leu Gly Phe Leu Gln Arg Ser Ser Asn Phe Gln Ser
 1 5 10 15

Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg Leu Glu Tyr Cys Leu Lys
 20 25 30

Asp Arg Met Asn Phe Asp Ile Pro Glu Glu Ile Lys Gln Leu Gln Cys
 35 40 45

Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln Asn
 50 55 60

Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser Cys Thr Gly Trp Cys Glu
 65 70 75 80

Thr Ile Val Glu Asn Leu Leu Ala Asn Val Tyr His Gln Ile Asn His
 85 90 95

Leu Lys Thr Val Leu Glu Glu Lys Leu Glu Cys Glu Asp Phe Thr Arg
 100 105 110

Gly Lys Leu Met Ser Ser Leu His Leu Lys Arg Tyr Tyr Gly Arg Ile
 115 120 125

Leu His Tyr Leu Lys Ala Lys Cys Tyr Ser His Cys Ala Trp Thr Ile
 130 135 140

Val Arg Val Glu Ile Leu Arg Asn Phe Tyr Phe Ile Asn Arg Leu Thr
 145 150 155 160

Gly Tyr Leu Arg Asn
 165

<210> 85
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Ser Tyr Asn Leu Leu Gly Phe Leu Gln Arg Ser Ser Asn Phe Gln Ser
 1 5 10 15

Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg Leu Glu Tyr Cys Leu Lys
 20 25 30

Asp Arg Met Asn Phe Asp Ile Pro Glu Glu Ile Lys Gln Leu Gln Gln
 35 40 45

Cys Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln Asn
 50 55 60

Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser Cys Thr Gly Trp Cys Glu
 65 70 75 80

Thr Ile Val Glu Asn Leu Leu Ala Asn Val Tyr His Gln Ile Asn His
 85 90 95

Leu Lys Thr Val Leu Glu Glu Lys Leu Glu Cys Glu Asp Phe Thr Arg
 100 105 110

Gly Lys Leu Met Ser Ser Leu His Leu Lys Arg Tyr Tyr Gly Arg Ile
 115 120 125

Leu His Tyr Leu Lys Ala Lys Cys Tyr Ser His Cys Ala Trp Thr Ile
 130 135 140

Val Arg Val Glu Ile Leu Arg Asn Phe Tyr Phe Ile Asn Arg Leu Thr
 145 150 155 160

Gly Tyr Leu Arg Asn
 165

<210> 86
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<220>
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<400> 86

Ser Tyr Asn Leu Leu Gly Phe Leu Gln Arg Ser Ser Asn Phe Gln Ser
 1 5 10 15

Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg Leu Glu Tyr Cys Leu Lys
 20 25 30

Asp Arg Met Asn Phe Asp Ile Pro Glu Glu Ile Lys Gln Leu Gln Gln
 35 40 45

Phe Cys Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln Asn
 50 55 60

Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser Cys Thr Gly Trp Cys Glu
 65 70 75 80

Thr Ile Val Glu Asn Leu Leu Ala Asn Val Tyr His Gln Ile Asn His
 85 90 95

Leu Lys Thr Val Leu Glu Glu Lys Leu Glu Cys Glu Asp Phe Thr Arg
 100 105 110

Gly Lys Leu Met Ser Ser Leu His Leu Lys Arg Tyr Tyr Gly Arg Ile
 115 120 125

Leu His Tyr Leu Lys Ala Lys Cys Tyr Ser His Cys Ala Trp Thr Ile
 130 135 140

Val Arg Val Glu Ile Leu Arg Asn Phe Tyr Phe Ile Asn Arg Leu Thr
 145 150 155 160

Gly Tyr Leu Arg Asn
 165

<210> 87
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 <222> (30)..(140)

<400> 87

Ser Tyr Asn Leu Leu Gly Phe Leu Gln Arg Ser Ser Asn Phe Gln Ser
 1 5 10 15

Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg Leu Glu Tyr Cys Leu Lys
 20 25 30

Asp Arg Met Asn Phe Asp Ile Pro Glu Glu Ile Lys Gln Leu Gln Gln
 35 40 45

Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln Asn
 50 55 60

Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser Ser Thr Gly Trp Cys Glu
 65 70 75 80

Thr Ile Val Glu Asn Leu Leu Ala Asn Val Tyr His Gln Ile Asn His
 85 90 95

Leu Lys Thr Val Leu Glu Glu Lys Leu Glu Cys Glu Asp Phe Thr Cys
 100 105 110

Gly Lys Leu Met Ser Ser Leu His Leu Lys Arg Tyr Tyr Gly Arg Ile
 115 120 125

Leu His Tyr Leu Lys Ala Lys Cys Tyr Ser His Cys Ala Trp Thr Ile
 130 135 140

Val Arg Val Glu Ile Leu Arg Asn Phe Tyr Phe Ile Asn Arg Leu Thr
 145 150 155 160

Gly Tyr Leu Arg Asn
 165

<210> 88
 <211> 165
 <212> PRT
 <213> Artificial sequence

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<220>
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<400> 88

Ser Tyr Asn Leu Leu Gly Phe Leu Gln Arg Ser Ser Asn Phe Gln Ser
 1 5 10 15

Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg Leu Cys Tyr Cys Leu Lys
 20 25 30

Asp Arg Met Asn Phe Asp Ile Pro Glu Glu Ile Lys Gln Leu Gln Gln
 35 40 45

Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln Asn
 50 55 60

Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser Ser Thr Gly Trp Cys Glu
 65 70 75 80

Thr Ile Val Glu Asn Leu Leu Ala Asn Val Tyr His Gln Ile Asn His
 85 90 95

Leu Lys Thr Val Leu Glu Glu Lys Leu Glu Cys Glu Asp Phe Thr Arg
 100 105 110

Gly Lys Leu Met Ser Ser Leu His Leu Lys Arg Tyr Tyr Gly Arg Ile
 115 120 125

Leu His Tyr Leu Lys Ala Lys Cys Tyr Ser His Cys Ala Trp Thr Ile
 130 135 140

Val Arg Val Glu Ile Leu Arg Asn Phe Tyr Phe Ile Asn Arg Leu Thr
 145 150 155 160

Gly Tyr Leu Arg Asn
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<210> 89
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<220>

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<222> (30)..(140)

<400> 89

Ser Tyr Asn Leu Leu Gly Phe Leu Gln Arg Ser Ser Asn Phe Gln Ser
1 5 10 15

Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg Leu Glu Tyr Cys Leu Lys
20 25 30

Asp Arg Cys Asn Phe Asp Ile Pro Glu Glu Ile Lys Gln Leu Gln Gln
35 40 45

Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln Asn
50 55 60

Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser Ser Thr Gly Trp Cys Glu
65 70 75 80

Thr Ile Val Glu Asn Leu Leu Ala Asn Val Tyr His Gln Ile Asn His
85 90 95

Leu Lys Thr Val Leu Glu Glu Lys Leu Glu Cys Glu Asp Phe Thr Arg
100 105 110

Gly Lys Leu Met Ser Ser Leu His Leu Lys Arg Tyr Tyr Gly Arg Ile
115 120 125

Leu His Tyr Leu Lys Ala Lys Cys Tyr Ser His Cys Ala Trp Thr Ile
130 135 140

Val Arg Val Glu Ile Leu Arg Asn Phe Tyr Phe Ile Asn Arg Leu Thr
145 150 155 160

Gly Tyr Leu Arg Asn
165

<210> 90
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<220>
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<400> 90

Ser Tyr Asn Leu Leu Gly Phe Leu Gln Arg Ser Ser Asn Phe Gln Ser
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Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg Leu Glu Tyr Cys Leu Lys
20 25 30

Asp Arg Met Asn Phe Asp Ile Pro Glu Glu Ile Lys Gln Leu Gln Gln
35 40 45

Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln Asn
50 55 60

Ile Phe Ala Ile Phe Cys Gln Asp Ser Ser Ser Thr Gly Trp Cys Glu
65 70 75 80

Thr Ile Val Glu Asn Leu Leu Ala Asn Val Tyr His Gln Ile Asn His
 85 90 95

Leu Lys Thr Val Leu Glu Glu Lys Leu Glu Cys Glu Asp Phe Thr Arg
 100 105 110

Gly Lys Leu Met Ser Ser Leu His Leu Lys Arg Tyr Tyr Gly Arg Ile
 115 120 125

Leu His Tyr Leu Lys Ala Lys Cys Tyr Ser His Cys Ala Trp Thr Ile
 130 135 140

Val Arg Val Glu Ile Leu Arg Asn Phe Tyr Phe Ile Asn Arg Leu Thr
 145 150 155 160

Gly Tyr Leu Arg Asn
 165

<210> 91
 <211> 165
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<220>
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 <222> (30)..(140)

<400> 91

Ser Tyr Asn Leu Leu Gly Phe Leu Gln Arg Ser Ser Asn Phe Gln Ser
 1 5 10 15

Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg Leu Glu Tyr Cys Leu Lys
 20 25 30

Asp Arg Met Asn Phe Asp Ile Pro Glu Glu Ile Lys Gln Leu Gln Gln
 35 40 45

Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln Asn
 50 55 60

Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser Cys Thr Gly Trp Cys Glu
 65 70 75 80

Thr Ile Val Glu Asn Leu Leu Ala Asn Val Tyr His Gln Ile Asn His
 85 90 95

Leu Lys Thr Val Leu Glu Glu Lys Leu Glu Cys Glu Asp Phe Thr Arg
 100 105 110

Gly Lys Leu Met Ser Ser Leu His Leu Lys Arg Tyr Tyr Gly Arg Ile
 115 120 125

Leu His Tyr Leu Lys Ala Lys Cys Tyr Ser His Cys Ala Trp Thr Ile
 130 135 140

Val Arg Val Glu Ile Leu Arg Asn Phe Tyr Phe Ile Asn Arg Leu Thr
 145 150 155 160

Gly Tyr Leu Arg Asn
 165

<210> 92
 <211> 165
 <212> PRT
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<220>
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 <222> (30)..(140)

<400> 92

Cys Tyr Asn Leu Leu Gly Phe Leu Gln Arg Ser Ser Asn Phe Gln Ser
 1 5 10 15

Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg Leu Glu Tyr Cys Leu Lys
 20 25 30

Asp Arg Met Asn Phe Asp Ile Pro Glu Glu Ile Lys Gln Leu Gln Cys
 35 40 45

Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln Asn
 50 55 60

Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser Ser Thr Gly Trp Cys Glu
 65 70 75 80

Thr Ile Val Glu Asn Leu Leu Ala Asn Val Tyr His Gln Ile Asn His
 85 90 95

Leu Lys Thr Val Leu Glu Glu Lys Leu Glu Cys Glu Asp Phe Thr Arg
 100 105 110

Gly Lys Leu Met Ser Ser Leu His Leu Lys Arg Tyr Tyr Gly Arg Ile
 115 120 125

Leu His Tyr Leu Lys Ala Lys Glu Tyr Ser His Cys Ala Trp Thr Ile
 130 135 140

Val Arg Val Glu Ile Leu Arg Asn Phe Tyr Phe Ile Asn Arg Leu Thr
 145 150 155 160

Gly Tyr Leu Arg Asn
165

<210> 93
<211> 165
<212> PRT
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<220>
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<222> (123)..(123)
<223> monosialo oligosaccharide

<220>
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<222> (30)..(140)

<400> 93

Cys Tyr Asn Leu Leu Gly Phe Leu Gln Arg Ser Ser Asn Phe Gln Ser
1 5 10 15

Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg Leu Glu Tyr Cys Leu Lys
20 25 30

Asp Arg Met Asn Phe Asp Ile Pro Glu Glu Ile Lys Gln Leu Gln Cys
 35 40 45

Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln Asn
 50 55 60

Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser Ser Thr Gly Trp Cys Glu
 65 70 75 80

Thr Ile Val Glu Asn Leu Leu Ala Asn Val Tyr His Gln Ile Asn His
 85 90 95

Leu Lys Thr Val Leu Glu Glu Lys Leu Glu Cys Glu Asp Phe Thr Cys
 100 105 110

Gly Lys Leu Met Ser Ser Leu His Leu Lys Cys Tyr Tyr Gly Arg Ile
 115 120 125

Leu His Tyr Leu Lys Ala Lys Glu Tyr Ser His Cys Ala Trp Thr Ile
 130 135 140

Val Arg Val Glu Ile Leu Arg Asn Phe Tyr Phe Ile Asn Arg Leu Thr
 145 150 155 160

Gly Tyr Leu Arg Asn
 165

<210> 94
 <211> 165
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<220>
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<220>
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<220>
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 <222> (30)..(140)

<400> 94

Cys	Tyr	Cys	Leu	Leu	Gly	Phe	Leu	Gln	Arg	Ser	Ser	Asn	Phe	Gln	Ser
1				5					10					15	

Gln	Lys	Leu	Leu	Trp	Gln	Leu	Asn	Gly	Arg	Leu	Glu	Tyr	Cys	Leu	Lys
			20					25					30		

Asp	Arg	Met	Asn	Phe	Asp	Ile	Pro	Glu	Glu	Ile	Lys	Gln	Leu	Gln	Cys
		35					40					45			

Phe	Gln	Lys	Glu	Asp	Ala	Ala	Leu	Thr	Ile	Tyr	Glu	Met	Leu	Gln	Asn
	50					55					60				

Ile	Phe	Ala	Ile	Phe	Arg	Gln	Asp	Ser	Ser	Ser	Thr	Gly	Trp	Cys	Glu
65					70					75					80

Thr	Ile	Val	Glu	Asn	Leu	Leu	Ala	Asn	Val	Tyr	His	Gln	Ile	Asn	His
				85					90					95	

Leu	Lys	Thr	Val	Leu	Glu	Glu	Lys	Leu	Glu	Cys	Glu	Asp	Phe	Thr	Cys
			100					105					110		

Gly	Lys	Leu	Met	Ser	Ser	Leu	His	Leu	Lys	Arg	Tyr	Tyr	Gly	Arg	Ile
		115					120					125			

Leu	His	Tyr	Leu	Lys	Ala	Lys	Glu	Tyr	Ser	His	Cys	Ala	Trp	Thr	Ile
	130					135					140				

Val Arg Val Glu Ile Leu Arg Asn Phe Tyr Phe Ile Asn Arg Leu Thr
 145 150 155 160

Gly Tyr Leu Arg Asn
 165

<210> 95
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 <222> (107)..(107)
 <223> monosialo oligosaccharide

<220>
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 <222> (30)..(140)

<400> 95

Cys Tyr Asn Leu Leu Gly Phe Leu Gln Arg Ser Ser Asn Phe Gln Ser
 1 5 10 15

Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg Leu Glu Tyr Cys Leu Lys
 20 25 30

Asp Arg Met Asn Phe Asp Ile Pro Glu Glu Ile Lys Gln Leu Gln Cys
 35 40 45

Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln Asn
 50 55 60

Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser Ser Thr Gly Trp Cys Glu
65 70 75 80

Thr Ile Val Glu Asn Leu Leu Ala Asn Val Tyr His Gln Ile Asn His
85 90 95

Leu Lys Thr Val Leu Glu Glu Lys Leu Glu Cys Glu Asp Phe Thr Arg
100 105 110

Gly Lys Leu Met Ser Ser Leu His Leu Lys Arg Tyr Tyr Gly Arg Ile
115 120 125

Leu His Tyr Leu Lys Ala Lys Glu Tyr Ser His Cys Ala Trp Thr Ile
130 135 140

Val Arg Val Glu Ile Leu Arg Asn Phe Tyr Phe Ile Asn Arg Leu Thr
145 150 155 160

Gly Tyr Leu Arg Asn
165

<210> 96
<211> 165
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<220>
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<222> (48)..(48)
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<222> (112)..(112)
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<220>
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 <222> (30)..(140)

<400> 96

Cys Tyr Asn Leu Leu Gly Phe Leu Gln Arg Ser Ser Asn Phe Gln Ser
 1 5 10 15

Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg Leu Glu Tyr Cys Leu Lys
 20 25 30

Asp Arg Met Asn Phe Asp Ile Pro Glu Glu Ile Lys Gln Leu Gln Cys
 35 40 45

Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln Asn
 50 55 60

Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser Ser Thr Gly Trp Cys Glu
 65 70 75 80

Thr Ile Val Glu Asn Leu Leu Ala Asn Val Tyr His Gln Ile Asn His
 85 90 95

Leu Lys Thr Val Leu Glu Glu Lys Leu Glu Cys Glu Asp Phe Thr Cys
 100 105 110

Gly Lys Leu Met Ser Ser Leu His Leu Lys Cys Tyr Tyr Gly Arg Ile
 115 120 125

Leu His Tyr Leu Lys Ala Lys Glu Tyr Ser His Cys Ala Trp Thr Ile
 130 135 140

Val Arg Val Glu Ile Leu Arg Asn Phe Tyr Phe Ile Asn Arg Leu Thr
 145 150 155 160

Gly Tyr Leu Arg Asn
 165

<210> 97
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 <222> (48)..(48)
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<220>
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 <222> (30)..(140)

<400> 97

Cys	Tyr	Asn	Leu	Leu	Gly	Phe	Leu	Gln	Arg	Ser	Ser	Asn	Phe	Gln	Ser
1				5					10					15	

Gln	Lys	Leu	Leu	Trp	Gln	Leu	Asn	Gly	Arg	Leu	Glu	Tyr	Cys	Leu	Lys
		20						25					30		

Asp	Arg	Met	Asn	Phe	Asp	Ile	Pro	Glu	Glu	Ile	Lys	Gln	Leu	Gln	Cys
		35					40					45			

Phe	Gln	Lys	Glu	Asp	Ala	Ala	Leu	Thr	Ile	Tyr	Glu	Met	Leu	Gln	Asn
	50					55					60				

Ile	Phe	Ala	Ile	Phe	Arg	Gln	Asp	Ser	Ser	Ser	Thr	Gly	Trp	Cys	Glu
65					70					75					80

Thr	Ile	Val	Glu	Asn	Leu	Leu	Ala	Asn	Val	Tyr	His	Gln	Ile	Asn	His
				85					90					95	

Leu Lys Thr Val Leu Glu Glu Lys Leu Glu Cys Glu Asp Phe Thr Arg
 100 105 110

Gly Lys Leu Met Ser Ser Leu His Leu Lys Arg Tyr Tyr Gly Arg Ile
 115 120 125

Leu His Tyr Leu Lys Ala Lys Glu Tyr Ser His Cys Ala Trp Thr Ile
 130 135 140

Val Arg Val Glu Ile Leu Arg Asn Phe Tyr Phe Ile Asn Arg Leu Thr
 145 150 155 160

Gly Tyr Leu Arg Asn
 165

<210> 98
 <211> 165
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 <222> (112)..(112)
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<220>

<221> DISULFID

<222> (30)..(140)

<400> 98

Cys Tyr Asn Leu Leu Gly Phe Leu Gln Arg Ser Ser Asn Phe Gln Ser
 1 5 10 15

Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg Leu Glu Tyr Cys Leu Lys
 20 25 30

Asp Arg Met Asn Phe Asp Ile Pro Glu Glu Ile Lys Gln Leu Gln Cys
 35 40 45

Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln Asn
 50 55 60

Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser Ser Thr Gly Trp Cys Glu
 65 70 75 80

Thr Ile Val Glu Asn Leu Leu Ala Asn Val Tyr His Gln Ile Asn His
 85 90 95

Leu Lys Thr Val Leu Glu Glu Lys Leu Glu Cys Glu Asp Phe Thr Cys
 100 105 110

Gly Lys Leu Met Ser Ser Leu His Leu Lys Cys Tyr Tyr Gly Arg Ile
 115 120 125

Leu His Tyr Leu Lys Ala Lys Glu Tyr Ser His Cys Ala Trp Thr Ile
 130 135 140

Val Arg Val Glu Ile Leu Arg Asn Phe Tyr Phe Ile Asn Arg Leu Thr
 145 150 155 160

Gly Tyr Leu Arg Asn
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<210> 99

<211> 165

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<220>
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 <222> (30)..(140)

<400> 99

Cys Tyr Asn Leu Leu Gly Phe Leu Gln Arg Ser Ser Asn Phe Gln Ser
 1 5 10 15

Gln Lys Leu Leu Trp Gln Leu Asn Gly Arg Leu Glu Tyr Cys Leu Lys
 20 25 30

Asp Arg Met Asn Phe Asp Ile Pro Glu Glu Ile Lys Gln Leu Gln Cys
 35 40 45

Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln Asn
 50 55 60

Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser Ser Thr Gly Trp Cys Glu
 65 70 75 80

Thr Ile Val Glu Asn Leu Leu Ala Asn Val Tyr His Gln Ile Asn His
 85 90 95

Leu Lys Thr Val Leu Glu Glu Lys Leu Glu Cys Glu Asp Phe Thr Arg
 100 105 110

Gly Lys Leu Met Ser Ser Leu His Leu Lys Arg Tyr Tyr Gly Arg Ile
 115 120 125

Leu His Tyr Leu Lys Ala Lys Glu Tyr Ser His Cys Ala Trp Thr Ile
 130 135 140

Val Arg Val Glu Ile Leu Arg Asn Phe Tyr Phe Ile Asn Arg Leu Thr
 145 150 155 160

Gly Tyr Leu Arg Asn
 165

<210> 100
 <211> 165
 <212> PRT
 <213> Artificial sequence

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<220>
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<220>
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 <222> (26)..(26)
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<220>
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 <222> (88)..(88)
 <223> disialo(alpha 2-6) oligosaccharide

<220>
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 <222> (30)..(140)

<400> 100

Cys Tyr Asn Leu Leu Gly Phe Leu Gln Arg Ser Ser Asn Phe Gln Ser
 1 5 10 15

Gln Lys Leu Leu Trp Gln Leu Asn Gly Cys Leu Glu Tyr Cys Leu Lys
 20 25 30

Asp Arg Met Asn Phe Asp Ile Pro Glu Glu Ile Lys Gln Leu Gln Cys
 35 40 45

Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln Asn
 50 55 60

Ile Phe Cys Ile Phe Arg Gln Asp Ser Ser Ser Thr Gly Trp Asn Glu
 65 70 75 80

Thr Ile Val Glu Asn Leu Leu Cys Asn Val Tyr His Gln Ile Asn His
 85 90 95

Leu Lys Thr Val Leu Glu Glu Lys Leu Glu Lys Glu Asp Phe Thr Arg
 100 105 110

Gly Lys Leu Met Ser Ser Leu His Leu Lys Arg Tyr Tyr Gly Arg Ile
 115 120 125

Leu His Tyr Leu Lys Ala Lys Glu Tyr Ser His Cys Ala Trp Thr Ile
 130 135 140

Val Arg Val Glu Ile Leu Arg Asn Phe Tyr Phe Ile Asn Arg Leu Thr
 145 150 155 160

Gly Tyr Leu Arg Asn
 165

<210> 101
 <211> 25
 <212> PRT
 <213> Artificial sequence

<220>
 <223> chemically synthesized

<220>
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 <222> (1)..(1)
 <223> 1C has Thiazolidine group

<220>

<221> BINDING
 <222> (25)..(25)
 <223> alkylthioester-modified with Thiophenol

<400> 101

Cys	Tyr	Asn	Leu	Leu	Gly	Phe	Leu	Gln	Arg	Ser	Ser	Asn	Phe	Gln	Ser
1				5				10						15	

Gln	Lys	Leu	Leu	Trp	Gln	Leu	Asn	Gly
		20					25	

<210> 102
 <211> 22
 <212> PRT
 <213> Artificial sequence

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

<220>
 <221> BINDING
 <222> (22)..(22)
 <223> alkylthioester-modified with MESNA

<400> 102

Cys	Leu	Glu	Tyr	Cys	Leu	Lys	Asp	Arg	Met	Asn	Phe	Asp	Ile	Pro	Glu
1				5				10						15	

Glu	Ile	Lys	Gln	Leu	Gln
			20		

<210> 103
 <211> 19
 <212> PRT
 <213> Artificial sequence

<220>
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<220>
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 <222> (1)..(1)
 <223> 1C has Thiazolidine group

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

<223> alkylthioester-modified with Ethanthiol

<400> 103

Cys	Phe	Gln	Lys	Glu	Asp	Ala	Ala	Leu	Thr	Ile	Tyr	Glu	Met	Leu	Gln
1				5					10					15	

Asn Ile Phe

<210> 104

<211> 21

<212> PRT

<213> Artificial sequence

<220>

<223> chemically synthesized

<220>

<221> MISC_FEATURE

<222> (1)..(1)

<223> 1C has Thiazolidine group

<220>

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<222> (13)..(13)

<223> disialo(alpha 2-6) oligosaccharide

<220>

<221> BINDING

<222> (21)..(21)

<223> alkylthioester-modified with Thiophenol

<400> 104

Cys	Ile	Phe	Arg	Gln	Asp	Ser	Ser	Ser	Thr	Gly	Trp	Asn	Glu	Thr	Ile
1				5					10					15	

Val	Glu	Asn	Leu	Leu
			20	

<210> 105

<211> 78

<212> PRT

<213> Artificial sequence

<220>

<223> chemically synthesized

<220>

<221> BINDING

<222> (53)..(53)

<223> Acn

<400> 105

Cys Asn Val Tyr His Gln Ile Asn His Leu Lys Thr Val Leu Glu Glu
 1 5 10 15

Lys Leu Glu Lys Glu Asp Phe Thr Arg Gly Lys Leu Met Ser Ser Leu
 20 25 30

His Leu Lys Arg Tyr Tyr Gly Arg Ile Leu His Tyr Leu Lys Ala Lys
 35 40 45

Glu Tyr Ser His Cys Ala Trp Thr Ile Val Arg Val Glu Ile Leu Arg
 50 55 60

Asn Phe Tyr Phe Ile Asn Arg Leu Thr Gly Tyr Leu Arg Asn
 65 70 75

<210> 106
 <211> 47
 <212> PRT
 <213> Artificial sequence

<220>
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<220>
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 <222> (1)..(1)
 <223> 1C has Thiazolidine group

<220>
 <221> BINDING
 <222> (30)..(30)
 <223> Acm

<220>
 <221> BINDING
 <222> (47)..(47)
 <223> alkylthioester-modified with Ethanthiol

<400> 106

Cys Tyr Asn Leu Leu Gly Phe Leu Gln Arg Ser Ser Asn Phe Gln Ser
 1 5 10 15

Gln Lys Leu Leu Trp Gln Leu Asn Gly Cys Leu Glu Tyr Cys Leu Lys
 20 25 30

Asp Arg Met Asn Phe Asp Ile Pro Glu Glu Ile Lys Gln Leu Gln
 35 40 45

<210> 107
 <211> 99
 <212> PRT
 <213> Artificial sequence

<220>
 <223> chemically synthesized

<220>
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 <222> (13)..(13)
 <223> disialo(alpha 2-6) oligosaccharide

<220>
 <221> BINDING
 <222> (74)..(74)
 <223> Acm

<400> 107

Cys Ile Phe Arg Gln Asp Ser Ser Ser Thr Gly Trp Asn Glu Thr Ile
 1 5 10 15

Val Glu Asn Leu Leu Cys Asn Val Tyr His Gln Ile Asn His Leu Lys
 20 25 30

Thr Val Leu Glu Glu Lys Leu Glu Lys Glu Asp Phe Thr Arg Gly Lys
 35 40 45

Leu Met Ser Ser Leu His Leu Lys Arg Tyr Tyr Gly Arg Ile Leu His
 50 55 60

Tyr Leu Lys Ala Lys Glu Tyr Ser His Cys Ala Trp Thr Ile Val Arg
 65 70 75 80

Val Glu Ile Leu Arg Asn Phe Tyr Phe Ile Asn Arg Leu Thr Gly Tyr
 85 90 95

Leu Arg Asn

<210> 108
 <211> 118
 <212> PRT
 <213> Artificial sequence

<220>
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<220>

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 <222> (32)..(32)
 <223> disialo(alpha 2-6) oligosaccharide

<220>
 <221> BINDING
 <222> (93)..(93)
 <223> Acn

<400> 108

Cys Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln
 1 5 10 15

Asn Ile Phe Cys Ile Phe Arg Gln Asp Ser Ser Ser Thr Gly Trp Asn
 20 25 30

Glu Thr Ile Val Glu Asn Leu Leu Cys Asn Val Tyr His Gln Ile Asn
 35 40 45

His Leu Lys Thr Val Leu Glu Glu Lys Leu Glu Lys Glu Asp Phe Thr
 50 55 60

Arg Gly Lys Leu Met Ser Ser Leu His Leu Lys Arg Tyr Tyr Gly Arg
 65 70 75 80

Ile Leu His Tyr Leu Lys Ala Lys Glu Tyr Ser His Cys Ala Trp Thr
 85 90 95

Ile Val Arg Val Glu Ile Leu Arg Asn Phe Tyr Phe Ile Asn Arg Leu
 100 105 110

Thr Gly Tyr Leu Arg Asn
 115

<210> 109
 <211> 165
 <212> PRT
 <213> Artificial sequence

<220>
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<220>
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 <222> (79)..(79)
 <223> disialo(alpha 2-6) oligosaccharide

<220>
 <221> BINDING

<222> (30) .. (30)

<223> Acn

<220>

<221> BINDING

<222> (140) .. (140)

<223> Acn

<400> 109

Cys	Tyr	Asn	Leu	Leu	Gly	Phe	Leu	Gln	Arg	Ser	Ser	Asn	Phe	Gln	Ser
1				5				10						15	

Gln	Lys	Leu	Leu	Trp	Gln	Leu	Asn	Gly	Cys	Leu	Glu	Tyr	Cys	Leu	Lys
		20						25					30		

Asp	Arg	Met	Asn	Phe	Asp	Ile	Pro	Glu	Glu	Ile	Lys	Gln	Leu	Gln	Cys
		35					40					45			

Phe	Gln	Lys	Glu	Asp	Ala	Ala	Leu	Thr	Ile	Tyr	Glu	Met	Leu	Gln	Asn
	50					55					60				

Ile	Phe	Cys	Ile	Phe	Arg	Gln	Asp	Ser	Ser	Ser	Thr	Gly	Trp	Asn	Glu
65					70					75					80

Thr	Ile	Val	Glu	Asn	Leu	Leu	Cys	Asn	Val	Tyr	His	Gln	Ile	Asn	His
				85					90					95	

Leu	Lys	Thr	Val	Leu	Glu	Glu	Lys	Leu	Glu	Lys	Glu	Asp	Phe	Thr	Arg
			100					105					110		

Gly	Lys	Leu	Met	Ser	Ser	Leu	His	Leu	Lys	Arg	Tyr	Tyr	Gly	Arg	Ile
		115					120					125			

Leu	His	Tyr	Leu	Lys	Ala	Lys	Glu	Tyr	Ser	His	Cys	Ala	Trp	Thr	Ile
	130					135					140				

Val	Arg	Val	Glu	Ile	Leu	Arg	Asn	Phe	Tyr	Phe	Ile	Asn	Arg	Leu	Thr
145					150					155					160

Gly	Tyr	Leu	Arg	Asn
				165

<210> 110

<211> 165

<212> PRT

<213> Artificial sequence

<220>

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<220>

<221> CARBOHYD

<222> (1)..(1)

<223> disialo(alpha 2-6) oligosaccharide

<220>

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<222> (26)..(26)

<223> disialo(alpha 2-6) oligosaccharide

<220>

<221> CARBOHYD

<222> (48)..(48)

<223> disialo(alpha 2-6) oligosaccharide

<220>

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<222> (67)..(67)

<223> disialo(alpha 2-6) oligosaccharide

<220>

<221> CARBOHYD

<222> (79)..(79)

<223> disialo(alpha 2-6) oligosaccharide

<220>

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<222> (88)..(88)

<223> disialo(alpha 2-6) oligosaccharide

<220>

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<222> (30)..(30)

<223> Acn

<220>

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<222> (140)..(140)

<223> Acn

<400> 110

Cys	Tyr	Asn	Leu	Leu	Gly	Phe	Leu	Gln	Arg	Ser	Ser	Asn	Phe	Gln	Ser
1				5					10					15	

Gln	Lys	Leu	Leu	Trp	Gln	Leu	Asn	Gly	Cys	Leu	Glu	Tyr	Cys	Leu	Lys
		20						25					30		

Asp	Arg	Met	Asn	Phe	Asp	Ile	Pro	Glu	Glu	Ile	Lys	Gln	Leu	Gln	Cys
		35					40					45			

Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln Asn
 50 55 60

Ile Phe Cys Ile Phe Arg Gln Asp Ser Ser Ser Thr Gly Trp Asn Glu
 65 70 75 80

Thr Ile Val Glu Asn Leu Leu Cys Asn Val Tyr His Gln Ile Asn His
 85 90 95

Leu Lys Thr Val Leu Glu Glu Lys Leu Glu Lys Glu Asp Phe Thr Arg
 100 105 110

Gly Lys Leu Met Ser Ser Leu His Leu Lys Arg Tyr Tyr Gly Arg Ile
 115 120 125

Leu His Tyr Leu Lys Ala Lys Glu Tyr Ser His Cys Ala Trp Thr Ile
 130 135 140

Val Arg Val Glu Ile Leu Arg Asn Phe Tyr Phe Ile Asn Arg Leu Thr
 145 150 155 160

Gly Tyr Leu Arg Asn
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Gln Lys Leu Leu Trp Gln Leu Asn Gly Cys Leu Glu Tyr Cys Leu Lys
 20 25 30

Asp Arg Met Asn Phe Asp Ile Pro Glu Glu Ile Lys Gln Leu Gln Cys
 35 40 45

Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln Asn
 50 55 60

Ile Phe Cys Ile Phe Arg Gln Asp Ser Ser Ser Thr Gly Trp Asn Glu
 65 70 75 80

Thr Ile Val Glu Asn Leu Leu Cys Asn Val Tyr His Gln Ile Asn His
 85 90 95

Leu Lys Thr Val Leu Glu Glu Lys Leu Glu Lys Glu Asp Phe Thr Arg
 100 105 110

Gly Lys Leu Met Ser Ser Leu His Leu Lys Arg Tyr Tyr Gly Arg Ile
 115 120 125

Leu His Tyr Leu Lys Ala Lys Glu Tyr Ser His Cys Ala Trp Thr Ile
 130 135 140

Val Arg Val Glu Ile Leu Arg Asn Phe Tyr Phe Ile Asn Arg Leu Thr
 145 150 155 160

Gly Tyr Leu Arg Asn
 165