

SEQUENCE LISTING

<110> Agency for Science, Technology and Research, University of Manchester

<120> Method of Sialylating a Protein

<130> S61014164

<160> 4

<170> PatentIn version 3.5

<210> 1

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Hypersialylated glycopeptide

<220>

<221> hypersialylated

<222> (4)..(4)

<400> 1

Tyr	Leu	Gly	Asn	Ala	Thr	Ala	Ile	Phe	Phe	Leu	Pro	Asp	Glu	Gly	Lys
1			5					10					15		

<210> 2

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Hypersialylated glycopeptide

<220>

<221> hypersialylated

<222> (7)..(7)

<400> 2

Gln	Leu	Ala	His	Gln	Ser	Asn	Ser	Thr	Asn	Ile	Phe	Phe	Ser	Pro	Val
1			5					10					15		

Ser Ile Ala Thr Ala Phe Ala Met Leu Ser Leu Gly Thr Lys
20 25 30

<210> 3
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Hypersialylated glycopeptide

<220>
<221> hypersialylated
<222> (14)..(14)

<400> 3

Ala Asp Thr His Asp Glu Ile Leu Glu Gly Leu Asn Phe Asn Leu Thr
1 5 10 15

Glu Ile Pro Glu Ala Gln Ile His Glu Gly Phe Gln Glu Leu Leu Arg
20 25 30

<210> 4
<211> 394
<212> PRT
<213> Artificial Sequence

<220>
<223> human AAT

<400> 4

Glu Asp Pro Gln Gly Asp Ala Ala Gln Lys Thr Asp Thr Ser His His
1 5 10 15

Asp Gln Asp His Pro Thr Phe Asn Lys Ile Thr Pro Asn Leu Ala Glu
20 25 30

Phe Ala Phe Ser Leu Tyr Arg Gln Leu Ala His Gln Ser Asn Ser Thr
35 40 45

Asn Ile Phe Phe Ser Pro Val Ser Ile Ala Thr Ala Phe Ala Met Leu
50 55 60

Ser Leu Gly Thr Lys Ala Asp Thr His Asp Glu Ile Leu Glu Gly Leu
65 70 75 80

Asn Phe Asn Leu Thr Glu Ile Pro Glu Ala Gln Ile His Glu Gly Phe
85 90 95

Gln Glu Leu Leu Arg Thr Leu Asn Gln Pro Asp Ser Gln Leu Gln Leu
100 105 110

Thr Thr Gly Asn Gly Leu Phe Leu Ser Glu Gly Leu Lys Leu Val Asp
115 120 125

Lys Phe Leu Glu Asp Val Lys Lys Leu Tyr His Ser Glu Ala Phe Thr
130 135 140

Val Asn Phe Gly Asp Thr Glu Glu Ala Lys Lys Gln Ile Asn Asp Tyr
145 150 155 160

Val Glu Lys Gly Thr Gln Gly Lys Ile Val Asp Leu Val Lys Glu Leu
165 170 175

Asp Arg Asp Thr Val Phe Ala Leu Val Asn Tyr Ile Phe Phe Lys Gly
180 185 190

Lys Trp Glu Arg Pro Phe Glu Val Lys Asp Thr Glu Glu Glu Asp Phe
195 200 205

His Val Asp Gln Val Thr Thr Val Lys Val Pro Met Met Lys Arg Leu
210 215 220

Gly Met Phe Asn Ile Gln His Cys Lys Lys Leu Ser Ser Trp Val Leu
225 230 235 240

Leu Met Lys Tyr Leu Gly Asn Ala Thr Ala Ile Phe Phe Leu Pro Asp
245 250 255

Glu Gly Lys Leu Gln His Leu Glu Asn Glu Leu Thr His Asp Ile Ile
260 265 270

Thr Lys Phe Leu Glu Asn Glu Asp Arg Arg Ser Ala Ser Leu His Leu
275 280 285

Pro Lys Leu Ser Ile Thr Gly Thr Tyr Asp Leu Lys Ser Val Leu Gly
290 295 300

Gln Leu Gly Ile Thr Lys Val Phe Ser Asn Gly Ala Asp Leu Ser Gly
305 310 315 320

Val Thr Glu Glu Ala Pro Leu Lys Leu Ser Lys Ala Val His Lys Ala
325 330 335

Val Leu Thr Ile Asp Glu Lys Gly Thr Glu Ala Ala Gly Ala Met Phe
340 345 350

Leu Glu Ala Ile Pro Met Ser Ile Pro Pro Glu Val Lys Phe Asn Lys
355 360 365

Pro Phe Val Phe Leu Met Ile Glu Gln Asn Thr Lys Ser Pro Leu Phe
370 375 380

Met Gly Lys Val Val Asn Pro Thr Gln Lys
385 390