

P67630PC-2012025620.TXT
SEQUENCE LISTING

<110> Klinikum der Universität zu Köln; Technische Universität München
<120> Polymer-Conjugate Technology for the Rapid Chemoenzymatic Synthesis of Glycopeptides
<130> P67630PC
<160> 8
<170> PatentIn version 3.5
<210> 1
<211> 18
<212> PRT
<213> Homo sapiens
<400> 1

Ala His Gly Val Thr Ser Ala Pro Asp Thr Arg Pro Ala Pro Gly Ser
1 5 10 15

Thr Ala

<210> 2
<211> 26
<212> PRT
<213> Artificial Sequence
<220>
<223> mucin 1-derived peptide elongated at the N-terminus by a TEV cleavage site (TA18)
<400> 2

Gly Asp Glu Asn Leu Tyr Phe Gln Ala His Gly Val Thr Ser Ala Pro
1 5 10 15

Asp Thr Arg Pro Ala Pro Gly Ser Thr Ala
20 25

<210> 3
<211> 19
<212> PRT
<213> Artificial Sequence
<220>
<223> mucin 1-derived peptide with N-terminal PEG27 moiety (PA18)

<220>
<221> X
<222> (1)..(1)
<223> HO-(polyethylene glycol)27

<220>
<221> X
<222> (1)..(1)
<223> HO-(polyethylene glycol)27 moiety

<220>

<221> X
 <222> (1)..(1)
 <223> HO-(polyethylene glycol)27 (PEG27)

<400> 3

Xaa Ala His Gly Val Thr Ser Ala Pro Asp Thr Arg Pro Ala Pro Gly
 1 5 10 15

Ser Thr Ala

<210> 4
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> mucin 1-derived ppeptide sequence elongated at the N-terminus by
 a TEV cleavage site with N-terminal PEG27 moiety (PTA18)

<220>
 <221> X
 <222> (1)..(1)
 <223> PEG27 moiety

<220>
 <221> X
 <222> (1)..(1)
 <223> HO-(polyethylene glycol)27 moiety

<400> 4

Xaa Gly Asp Glu Asn Leu Tyr Phe Gln Ala His Gly Val Thr Ser Ala
 1 5 10 15

Pro Asp Thr Arg Pro Ala Pro Gly Ser Thr Ala
 20 25

<210> 5
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> artificial sequence suitable for NCL reaction (N-MUC1-SR)

<220>
 <221> X
 <222> (21)..(21)
 <223> thioester moiety (thioglycolic acid moiety)

<400> 5

Ala Pro Pro Ala His Gly Val Thr Ser Ala Pro Thr Arg Pro Ala Pro
 1 5 10 15

Gly Ser Thr Ala Xaa
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<210> 6
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> mucin 1-derived peptide elongated at the N-terminus by a TEV
 cleavage site and a cystein residue and a PEG27 moiety
 (PT-Cys-A18-Tn)

<220>
 <221> x
 <222> (1)..(1)
 <223> PEG27 moiety

<400> 6

Xaa Gly Asp Glu Asn Leu Tyr Phe Gln Cys Ala His Gly Val Thr Ser
 1 5 10 15

Ala Pro Asp Thr Arg Pro Ala Pro Gly Ser Thr Ala
 20 25

<210> 7
 <211> 19
 <212> PRT
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<220>
 <223> mucin 1-derived peptide elongated at the N-terminus by a cystein
 residue (Cys-A18-Tn)

<400> 7

Cys Ala His Gly Val Thr Ser Ala Pro Asp Thr Arg Pro Ala Pro Gly
 1 5 10 15

Ser Thr Ala

<210> 8
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> mucin 1-Cys-TA18-Tn peptide (N-MUC1-Cys-TA18-Tn)

<400> 8

Ala Pro Pro Ala His Gly Val Thr Ser Ala Pro Thr Arg Pro Ala Pro
 1 5 10 15

Gly Ser Thr Ala Cys Ala His Gly Val Thr Ser Ala Pro Asp Thr Arg
 20 25 30

Pro Ala Pro Gly Ser Thr Ala
 35