

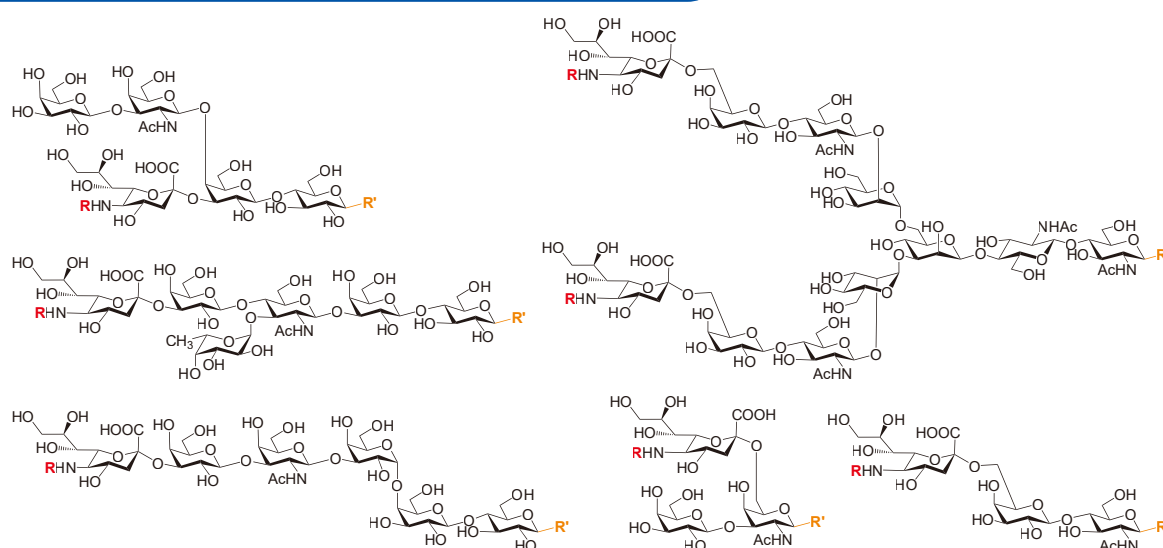
Sialic Acid-Containing Glycans

Glycans modified with sialic acid at the non-reducing end are primarily found as components of glycoproteins and glycolipids on the cell surface, where they play essential roles in various biological processes such as cell-cell recognition and signal transduction. These glycans are known to be associated with diseases including cancer, autoimmune disorders, and infections caused by bacteria and viruses.

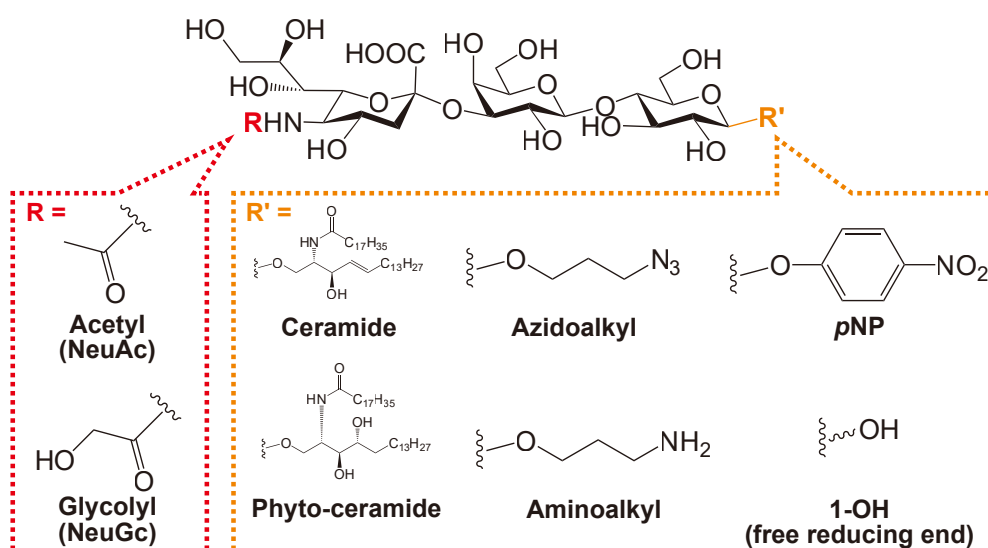
Sialic acid-containing glycans are also found in mammalian milk as components of milk oligosaccharides and have been reported to contribute to the alleviation of inflammatory diseases,¹⁾ exert anti-infective effects against viruses such as rotavirus,²⁾ and increase ganglioside production.³⁾

We offer a lineup of sialic acid-containing glycans bearing either NeuAc or NeuGc, the latter of which is considered a xeno-antigen in humans and provide them with a variety of modifications at the reducing end, including ceramide, azidoalkyl, aminoalkyl, and *p*-nitrophenyl (*p*NP) groups.

Examples of Sialic Acid-Containing Glycans



Examples of Available Modification



- References**
- 1) E. Jantscher-Krenn *et al.*, *Gut* **2012**, *61*, 1417. <https://doi.org/10.1136/gutjnl-2011-301404>
 - 2) D. R. Laucirica *et al.*, *J. Nutr.* **2017**, *147*, 1709. <https://doi.org/10.3945/jn.116.246090>
 - 3) S. K. Jacobi *et al.*, *J. Nutr.* **2016**, *146*, 200. <https://doi.org/10.3945/jn.115.220152>

Glycolipids

Ganglioside GM ₃	Contact us. [G0489]
Ganglioside GM ₃ [d18:1, (Carbon-13)C16:0]	Contact us. [G0419]
Ganglioside GM ₃ (phyto-type)	1mg / 5mg [G0422]
Ganglioside GM ₃ (Neu5Gc)(phyto-type)	Contact us. [G0510]
Ganglioside GM ₁	Contact us. [G0483]
Ganglioside GM ₁ [d18:1, (Carbon-13)C16:0]	Contact us. [G0421]
Sialyl Neolactotetraosylceramide (=Sialyl nLc ₄ Cer)	Contact us. [S0910]
SialylGb ₅ Ceramide	1mg / 5mg [G0593]

Glycoamino Acids / Glycopeptides

SGN	1mg [G0560]
DNS-SGN	1mg [D3690]
Sialylglycopeptide	10mg [S0523]

Free Reducing End Glycans

3'-Sialyllactose Sodium Salt	20mg / 100mg [S0885]
6'-Sialyllactose Sodium Salt	20mg / 100mg [S0886]
Sialyl Lewis X-lactose	1mg / 5mg [S0849]
Disialyloctasaccharide	10mg [D4065]
Neu5Gca(2-6) <i>N</i> -Glycan	Contact us. [N1064]
Neu5Aca(2-6) <i>N</i> -Glycan	1mg [N1065]
Neu5Gca(2-6) core 6-Fucosylated <i>N</i> -Glycan	Contact us. [N1182]

2AB-labeled Glycans

Neu5Aca(2-6) <i>N</i> -Glycan 2AB (500pmol/vial)	1vial [N1073]
Neu5Gca(2-6) <i>N</i> -Glycan 2AB (500pmol/vial)	1vial [N1075]
Neu5Gca(2-6) core 6-Fucosylated <i>N</i> -Glycan 2AB (500pmol/vial)	1vial [N1183]

pNP Glycosides

Neu5Aca(2-6)GalNAc- α -pNP	5mg [N0890]
Neu5Aca(2-3)Gal β (1-3)GlcNAc- β -pNP	Contact us. [N0853]
Neu5Aca(2-3)Gal β (1-4)GlcNAc- β -pNP	2mg [N0854]
Neu5Aca(2-6)Gal β (1-3)GlcNAc- β -pNP	1mg [N0855]
Neu5Aca(2-6)Gal β (1-4)GlcNAc- β -pNP	2mg [N0856]
Neu5Aca(2-3)Gal β (1-4)Glc- β -pNP	5mg [N0860]
Gal β (1-4)[Neu5Aca(2-6)]GlcNAc- β -pNP	2mg [G0353]
Gal β (1-3)[Neu5Aca(2-6)]GalNAc- β -pNP	5mg [G0345]
Gal β (1-3)[Neu5Aca(2-6)]GalNAc- α -pNP	2mg [G0377]
GlcNAc β (1-3)[Neu5Aca(2-6)]GalNAc- α -pNP	2mg [G0378]
Disialylnonasaccharide- β -pNP	1mg [N0913]

MP Glycosides

Neu5Ac α (2-3)Gal β MP Glycoside	10mg / 50mg [N0791]
Neu5Ac α (2-6)Gal β MP Glycoside	10mg / 50mg [N0792]
Neu5Gc α (2-3)Gal β MP Glycoside	5mg [N0793]
Neu5Gc α (2-6)Gal β MP Glycoside	5mg [N0794]
Neu5Gc α (2-6) <i>N</i> -Glycan MP Glycoside	Contact us. [N1046]

Aminoalkyl Glycosides / Azidoalkyl Glycosides

Neu5Ac α (2-6)Gal- β -propylamine	5mg [N1147]
Neu5Ac α (2-6)Gal β (1-4)GlcNAc- β -ethylamine	5mg [N0950]
Neu5Ac α (2-3)Gal- β -propylazide	5mg [N1249]
Neu5Ac α (2-3)Gal- β -propylamine	5mg [N1146]
Neu5Ac α (2-3)Gal β (1-4)GlcNAc- β -propylamine	5mg [N1267]
Neu5Ac α (2-3)Gal β (1-4)Glc- β -propylamine	5mg [N1258]
Neu5Gc α (2-3)Gal β (1-4)Glc- β -propylamine	1mg [N1259]
Neu5Gc α (2-3)[GalNAc β (1-4)]Gal β (1-4)Glc- β -propylamine	1mg [N1275]
Gal β (1-3)[Neu5Ac α (2-6)]GalNAc- α -propylamine	Contact us. [G0440]
Neu5Ac α (2-6)Gal β (1-4)GlcNAc β (1-3)Gal β (1-4)GlcNAc- β -propylamine	Contact us. [N1117]
Neu5Ac α (2-6)Gal β (1-4)GlcNAc β (1-3)Gal β (1-4)GlcNAc β (1-3)Gal β (1-4)GlcNAc- β -propylamine	Contact us. [N1118]
Sialyl Lewis X-Lactose Ethylazide	Contact us. [S0922]
Sialyl Lewis X-Lactose Ethylamine	Contact us. [S0923]
DisialylInonasaccharide- β -ethylazide	1mg [D4217]

Glycoconjugates

Neu5Ac α (2-3)Gal β (1-4)GlcNAc- β -propylamido-biotin	1mg [N1278]
HSA-Sialyl Lewis X	1vial [H1730]
HSA-GM ₁ Pentasaccharide	1vial [H1767]

Sialic Acids / Sialic Acid Derivatives

<i>N</i> -Acetylneuraminic Acid	100mg / 1g / 5g [A0639]
<i>N</i> -Acetylneuraminic Acid	100mg / 1g / 5g [A1105]
<i>N</i> -Acetylneuraminic Acid Methyl Ester	1g [A1821]
<i>N</i> -Glycolylneuraminic Acid	10mg [G0336]
<i>N</i> -Acetyl-2,3-didehydro-2-deoxyneuraminic Acid	5mg [A2205]
<i>N</i> -Glycoyl-2,3-didehydro-2-deoxyneuraminic Acid	5mg [G0588]
Zanamivir Hydrate	100mg [Z0023]
4-Methylumbelliferyl- <i>N</i> -acetyl- α -D-neuraminic Acid Sodium Salt	50mg [M3031]
BTP3-Neu5Ac Na	1mg [B6529]
<i>N</i> -Acetyl-9-deoxy-9-fluoroneuraminic Acid	Contact us. [A2492]
<i>N</i> -Acetyl-9-deoxy-9-aminoneuraminic Acid	Contact us. [A2511]
<i>N</i> -Acetyl-9- <i>O</i> -acetylneuraminic Acid	5mg [A3414]
<i>N</i> -Acetyl-9-deoxy-9-acetamidoneuraminic Acid	Contact us. [A3415]
<i>N</i> -Acetyl-2-deoxy-2-azido- α -neuraminic Acid	5mg [A3416]
<i>N</i> -Acetyl-9-azido-9-deoxyneuraminic Acid	5mg [A3458]
5-Azidoneuraminic Acid	5mg [A3483]

Related Products : Anti-glycan Antibodies

Anti-GM ₁ Monoclonal Antibody	1 vial [A2505]
Anti-GM ₂ Monoclonal Antibody	1 vial [A2576]
Anti-GM ₃ Monoclonal Antibody	1 vial [A2582]
Anti-GD _{1a} Monoclonal Antibody	1 vial [A2507]
Anti-GD _{1b} Monoclonal Antibody	1 vial [A2508]
Anti-GD ₂ Monoclonal Antibody	1 vial [A3338]
Anti-GD ₃ Monoclonal Antibody	1 vial [A2580]
Anti-GT _{1a} Monoclonal Antibody	1 vial [A2702]
Anti-GT _{1b} Monoclonal Antibody	1 vial [A2732]
Anti-GQ _{1b} Monoclonal Antibody	1 vial [A2662]
Anti-GalNAc-GD _{1a} Monoclonal Antibody (2A3D2)	1 vial [A2701]
Anti-Sialyl Lewis A Monoclonal Antibody (2D3)	1 vial [A2509]
Anti-Sialyl Lewis A Monoclonal Antibody (1H4)	1 vial [A2584]
Anti-Sialyl Lewis X Monoclonal Antibody	1 vial [A2849]
Anti-SSEA-4 (SialylGb ₅) Monoclonal Antibody	1 vial [A3742]
Anti-Sialyl 6,6'-disulfo LacNAc Monoclonal Antibody (G270-16)	1 vial [A3253]
Anti-Sialyl 6-sulfo Lewis X Monoclonal Antibody (G152)	1 vial [A3399]
Anti-α2-6-Sialylated 6-sulfo LacNAc Monoclonal Antibody (KN343)	1 vial [A3428]
Anti-NeuGc Chicken Polyclonal Antibody	1 vial [A3240]
Anti-NeuGc Polyclonal Antibody Biotin Conjugate	1 vial [A3294]
Anti-NeuGc Polyclonal Antibody FITC Conjugate	1 vial [A3295]
Anti-NeuGc Polyclonal Antibody R-PE Conjugate	1 vial [A3360]
Anti-NeuGc Polyclonal Antibody HRP Conjugate	1 vial [A3397]

Related Products : Enzymes and Lectins

Sialidase from <i>Arthrobacter ureafaciens</i>	1 vial [I1205]
O-Glycosidase for core 1 (Endo-α and Sialidase mix)	1 vial [G0622]
Recombinant <i>Polyporus squamosus</i> lectin (= rPSL1a) expressed in <i>Escherichia coli</i>	1 mL [R0225]
rPSL1a-Biotin [for Siaα(2-6)Gal]	1 mL [R0230]
rPSL1a-LecBeads [for Siaα(2-6)Gal]	1 vial [R0235]

Please visit our website for more information on sialic acid-containing glycans.

Sialylated Glycans

<https://bit.ly/4mYj6oS> or

Sialylglycopeptide (SGP), Disialyloctasaccharide

<https://bit.ly/3G0yall> or

Sialylated N-Glycan Series Functionally-modified at the Reducing End

<https://bit.ly/3G4JUmn> or

Glycan-related Reagents for Virus Research: Sialic Acid Derivatives and Sulfated Polysaccharides

<https://bit.ly/40c0jg3> or

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Tel : +44 (0)1865 78 45 60
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