

N-Glycan reagents

For research

Our catalog of over 50 homogeneous and well-characterized human type N-linked glycans are tailored from highly pure A2G2S2 N-glycan using a combination of chemical and enzymatic processes. Our established bulk production capabilities enable us to provide larger amounts of glycan at a lower cost, making them accessible for use as reagents for applications ranging from basic R&D to biotherapeutics development and production.

Well-defined glycan structures

All our glycan reagents are homogeneous in structure and manufactured by multidimensional NMR-validated processes.

Practical amounts for any application

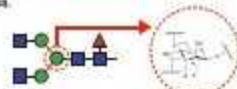
- Available at milligram to gram scale for research
- Bulk glycan production (gram to kilogram) to order for API manufacturing

Ready to meet your needs

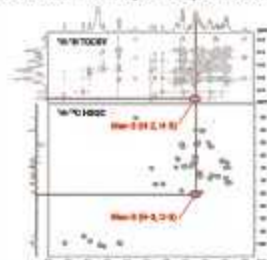
- Comprehensive product range including:
 - Over 50 different N-glycan structures
 - Special glycan structures (e.g. bisecting GlcNAc)
 - Various functional and activating groups (maleimide, succinimide, halocacetamide, etc.)
 - Various labels for analytical use (2-AB, 2-AA, 2-AP, APTS, etc.)
- Custom synthesis of glycan reagents and analytical standards to meet specific research purposes

Validated structures

Not only the constituent monosaccharides but also the positions and configurations of the glycosidic bonds of the glycan are validated for each manufacturing process.



¹H-¹³C correlation analysis of 3-position of Man-3



Comprehensive glycan catalog: over 50 glycans available

Standard pack sizes: 1 mg, 5 mg, 10 mg, 50 mg, 100 mg Purity: >90%

Commonly ordered glycan structures

Other structures and customizations are available. Please contact us to discuss your requirements.

Key:

- HexNAc
- Mannose
- Galactose
- Fucose
- Glucose
- Sialic acid

AS2S2	AS2M	AS2M2	AS2M3	AS2M4
AS2S2F	AS2M	AS2M2F	AS2M3	AS2M4F
AS2S2F2	AS2M	AS2M2F2	AS2M3	AS2M4F
MAN2G2S2M	MAN2G2S2M	MAN2G2S2M	MAN2G2S2M	MAN2G2S2M

*Amounts over 10 mg made to order



Standard functionalizations

Four different reducing and modifications are available as standard for direct experimental use in a variety of common applications.

Modifications and example uses:

- Asn-Fmoc or Asn type → Solid-phase peptide synthesis (SPPS)
- BrAc type → Targeted glycosylation
- Oxalime type → Enzymatic trans-glycosylation

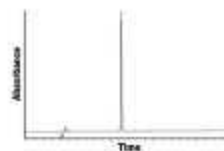
Reliable and dependable supply

GlyTech has supplied glycans to pharmaceutical companies, academia and research institutions globally. Our glycan reagents have been used in projects ranging from new therapeutics development to biomarker discovery, antibody R&D and fundamental glycoscience research.

With nearly 20 years experience in glycosylation, GlyTech can offer advice and support from reagent selection to experimental usage. Contact us, our experts will be happy to help you!

GlyTech Quality Assured

Every glycan is shipped with an LC analysis report confirming its purity.



Research using our glycans

- Establishment and characterization of a fucosylated α-fetoprotein-specific monoclonal antibody: a potential application for clinical research (*Sci Rep.* 2019; 9(1): 12359)
- Total Chemical Synthesis of a Nonfibrillating Human Glycolipin (*J. Am. Chem. Soc.* 2020, 142, 3, 1164–1169)
- Chemical Synthesis and Characterization of a Nonfibrillating Glycoglycagan (doi.org/10.1021/acs.bioconchem.5c00419)
- Cell wall N-glycan of *Candida albicans* ameliorates early hyper- and late hypo-immunoreactivity in sepsis (*Commun Bio.* 2021; 4: 342)

