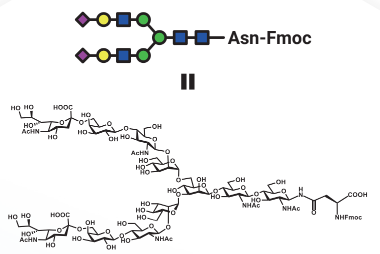
Glycan reagents
Products

GlyTech, Inc.
Glycoscience for Better Health

N-Glycan reagents



A2G2S(6)2 N-glycan [Asn-Fmoc]

Well-defined glycan structures

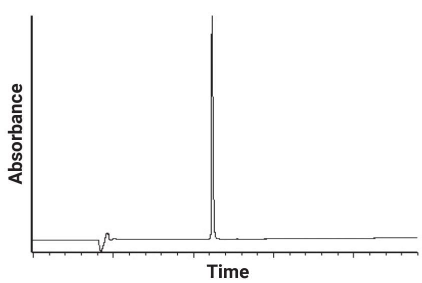
All our glycan reagents are homogeneous in structure and manufactured by multidimensional NMR-validated processes.

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, haloacetamide, 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

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 Glycoinsulin (*J. Am. Chem. Soc*. 2020, 142, 3, 1164–1169)
- Chemical Synthesis and Characterization of a Nonfibrillating Glycoglucagon (doi.org/10.1021/acs.bioconjchem.1c00419)
- Cell wall N-glycan of Candida albicans ameliorates early hyper- and late hypo-immunoreactivity in sepsis (*Commun Bio*. 2021; 4: 342)

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.

Practical amounts for any application

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

Standard functionalizations

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

Modifications and example uses:

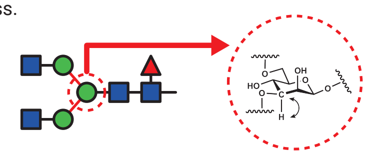
- Asn-Fmoc or Asn type → Solid-phase peptide synthesis (SPPS)
- BrAc type → Targeted glycosylation
- Oxazoline type → Enzymatic trans-glycosylation

Reliable and dependable supply

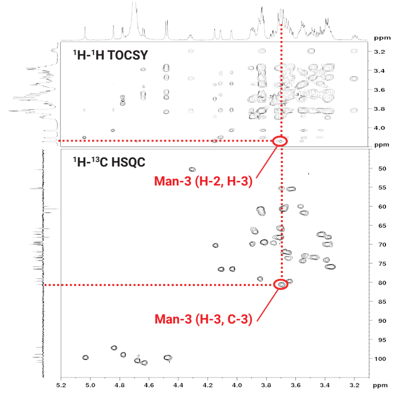
GlyTech has supplied glycans to pharmaceutical companies, academia and research institutions globally. Our glycan reagents have been used in projects ranging from new therapeutics development to biomarker discovery, antibody R&D and fundamental glycoscience research.

Validated structures

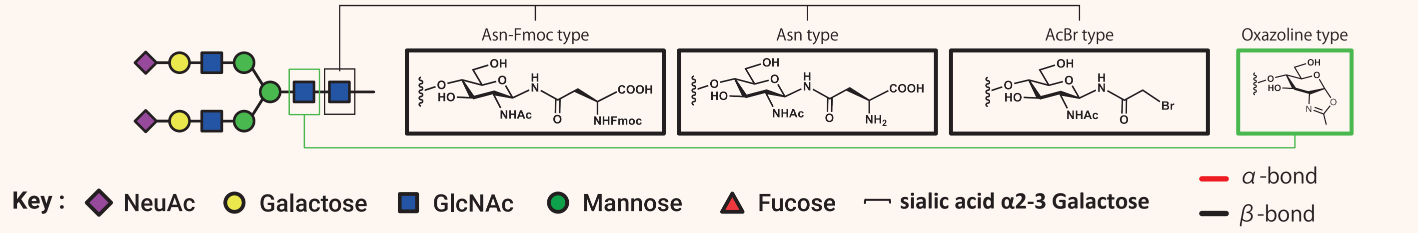
Not only the constituent monosaccharides but also the positions and configurations of the glycosidic bonds of the glycan are validated for each manufacturing process.

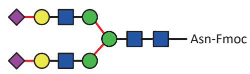
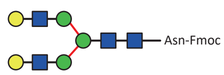
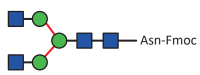
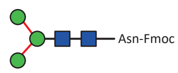
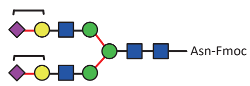
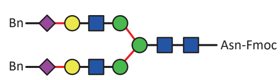
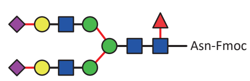
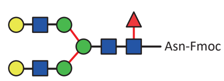
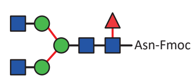
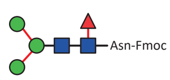
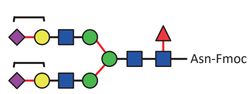


1H-13C correlation analysis of 3-position of Man-3



Standard reducing end modifications



Name	Structure	CAS RN®	Code	Pack size
GT-25001 A2G2S(6)2 N-glycan [Asn-Fmoc]		491844-97-4	TUS000001 TUS000002	10mg 100mg
GT-25022 A2G2 N-glycan [Asn-Fmoc]		204715-69-5	TUS000003 TUS000004	10mg 100mg
GT-25023 A2 N-glycan [Asn-Fmoc]		195260-97-0	TUS000005 TUS000006	10mg 100mg
GT-25024 M3 N-glycan [Asn-Fmoc]		491845-15-9	TUS000007 TUS000008	10mg 100mg
GT-25025 A2G2S(3)2 N-glycan [Asn-Fmoc]		717922-27-5	TUS000009 TUS000010	10mg 100mg
GT-25050 A2G2S(6)2 N-glycan [Asn-Fmoc,Neu5Ac(OBn)]		–	TUS000011 TUS000012	10mg 100mg
GT-25132 FA2G2S(6)2 N-glycan [Asn-Fmoc]		1308872-08-3	TUS000013 TUS000014	10mg 100mg
GT-25153 FA2G2 N-glycan [Asn-Fmoc]		–	TUS000015 TUS000016	10mg 100mg
GT-25154 FA2 N-glycan [Asn-Fmoc]		2088923-61-7	TUS000017 TUS000018	10mg 100mg
GT-25155 FM3 N-glycan [Asn-Fmoc]		1308872-05-0	TUS000019 TUS000020	10mg 100mg
GT-25156 FA2G2S(3)2 N-glycan [Asn-Fmoc]		–	TUS000021 TUS000022	10mg 100mg

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

Manufacturing partner
GlyTech, Inc.

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Wechat