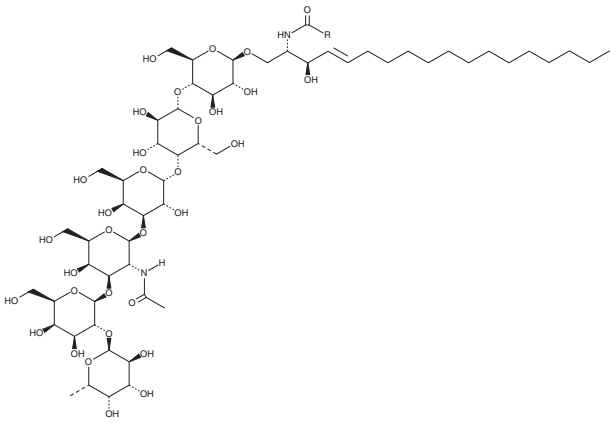
PRODUCT INFORMATION

Globo H

Item No. 36243



CAS Registry No.:	77538-31-9
Formal Name:	1-O-[O-6-deoxy-α-L-galactopyranosyl-(1→2)-O-β-D-galactopyranosyl-(1→3)-O-2-(acetylamino)-2-deoxy-β-D-galactopyranosyl-(1→3)-O-α-D-galactopyranosyl-(1→4)-O-β-D-galactopyranosyl-(1→4)-β-D-glucopyranosyl]-ceramide
Synonym:	Fucα1→2Galβ1→3GalNAcβ1→3Galα1→4Galβ1→4Glcβ-Cer
MF:	$C_{72}H_{130}N_2O_{32}$
FW:	1,535.8
Purity:	≥95% (mixture of fatty acid chains)
Supplied as:	A solid
Storage:	-20°C
Stability:	≥2 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Globo H is supplied as a solid. A stock solution may be made by dissolving the globo H in the solvent of choice, which should be purged with an inert gas. Globo H is soluble in methanol.

Description

Globo H is a glycosphingolipid and tumor-associated carbohydrate antigen (TACA).[1,2] It is present on the surface of cancer cells, including breast and pancreatic cancer cells, and is involved in tumor immune evasion and angiogenesis.[3] Globo H has been found in undifferentiated human embryonic stem cells (hESCs), and increased plasma levels of anti-globo H antibodies are associated with breast cancer.[4,5] This product contains globo H molecular species with primarily C22:0 fatty acyl chains. As this product is derived from a natural source, there may be variations in the sphingoid backbone.

References

1. Yu, J., Hung, J.-T., Wang, S.-H., *et al.* Targeting glycosphingolipids for cancer immunotherapy. *FEBS Lett.* **594(22),** 3602-3618 (2020).
2. Berois, N., Pittini, A., and Osinaga, E. Targeting tumor glycans for cancer therapy: Successes, limitations, and perspectives. *Cancers (Basel)* **14(3),** 645 (2022).
3. Sigal, D.S., Hermel, D.J., Hsu, P., *et al.* The role of Globo H and SSEA-4 in the development and progression of cancer, and their potential as therapeutic targets. *Future Oncol.* **18(1),** 117-134 (2022).
4. Liang, Y.-J., Kuo, H.-H., Lin, C.-H., *et al.* Switching of the core structures of glycosphingolipids from globo- and lacto- to ganglio-series upon human embryonic stem cell differentiation. *Proc. Natl. Acad. Sci. U.S.A.* **107(52),** 22564-22569 (2010).
5. Wang, C.-C., Huang, Y.-L., Ren, C.-T., *et al.* Glycan microarray of Globo H and related structures for quantitative analysis of breast cancer. *Proc. Natl. Acad. Sci. U.S.A.* **105(33),** 11661-11666 (2008).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

WARRANTY AND LIMITATION OF REMEDY
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