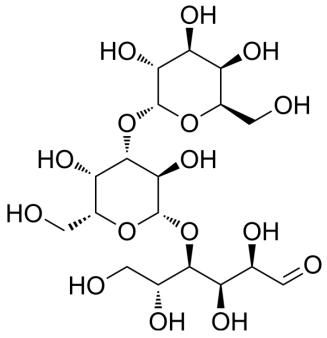
Isoglobotriaose

Cat. No.:	HY-N10526
CAS No.:	41744-59-6
Molecular Formula:	$C_{18}H_{32}O_{16}$
Molecular Weight:	504.44
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Isoglobotriaose (Gala-3Galb-4Glc) is a glycosphingolipid found in mammalian tissues. Isoglobotriaose is an analogue of Globotriaose, the ganglioside derivatives of them locate in difference position of small intestine, isoglobotriaosylceramide is restricted to the nonepithelial residue, while globotriaosylceramide is in both compartments[1][2].
In Vitro	Isoglobotriaose is synthesized from lactose, glucose-1-phophate (Glc-1-P), and uridine 5'-triphosphate (UTP) by a one-pot three-enzyme system containing UDP-glucose pyrophosphorylase (GlaU), UDP-Gal 4-epimerase (GalE), and an α1-3 galactosytransferase (α1-3GalT)[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Li W, et al. Strategies for chemoenzymatic synthesis of carbohydrates. Carbohydr Res. 2019 Jan 15;472:86-97.

[2]. Breimer ME, et al. Glycosphingolipids of rat tissues. Different composition of epithelial and nonepithelial cells of small intestine. J Biol Chem. 1982 Jan 10;257(1):557-68.

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