



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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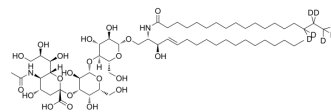
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Ganglioside GM3-d₇

Cat. No.:	HY-114456S
Molecular Formula:	C ₅₉ H ₁₀₁ D ₇ N ₂ O ₂₁
Molecular Weight:	1188.53
Target:	Isotope-Labeled Compounds; Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Ganglioside GM3-d₇ is deuterium labeled Ganglioside GM3. Ganglioside GM3 is a precursor of a-, b-, and c-series gangliosides, interacts with transmembrane receptors such as the epidermal growth factor and insulin receptors, and regulates receptor functions by creating a specialized lipid environment. Ganglioside GM3 is synthesized by GM3 synthase and can be used for the research of hypercholesterolemia^{[1][1][2][3]}.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.
- [2]. Nihei W, et al. NPC1L1-dependent intestinal cholesterol absorption requires ganglioside GM3 in membrane microdomains. *J Lipid Res*. 2018 Nov;59(11):2181-2187.
- [3]. Inokuchi JI, et al. Pathophysiological Significance of GM3 Ganglioside Molecular Species With a Particular Attention to the Metabolic Syndrome Focusing on Toll-Like Receptor 4 Binding. *Front Mol Biosci*. 2022 May 30;9:918346.

Caution: Product has not been fully validated for medical applications. For research use only.

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