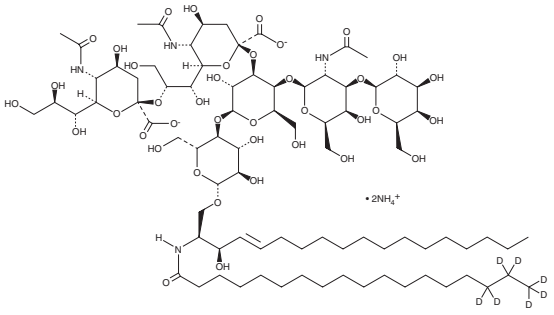
PRODUCT INFORMATION

C18 Ganglioside G_{D1b}-d_7 (d18:1/18:0-d_7) (ammonium salt)

Item No. 46226

Formal Name: N-[(1S,2R,3E)-1-[[[O-(N-acetyl-α-neuraminosyl)-(2→8)-O-(N-acetyl-α-neuraminosyl)-(2→3)-O-[O-β-D-galactopyranosyl-(1→3)-2-(acetylamino)-2-deoxy-β-D-galactopyranosyl-(1→4)]-O-β-D-galactopyranosyl-(1→4)-β-D-glucopyranosyl]oxy]methyl]-2-hydroxy-3-heptadecen-1-yl]-octadecanamide-16,16,17,17,18,18,18-d_7, diammonium salt



Synonym: N-ω-stearoyl Disialoganglioside G_{D1b}-d_7

MF: $C_{84}H_{139}D_7N_4O_{39} \bullet 2NH_4$

FW: 1,879.2

Chemical Purity: ≥95% (C18 ganglioside G_{D1b})

Deuterium Incorporation: ≥99% deuterated forms (d_1-d_7); ≤1% d_0

Supplied as: A 1 mg/ml in methanol

Storage: -20°C

Stability: ≥2 years

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

Laboratory Procedures

C18 Ganglioside G_{D1b}-d_7 (d18:1/18:0-d_7) (ammonium salt) is intended for use as an internal standard for the quantification of C18 ganglioside G_{D1b} by GC- or LC-MS. The accuracy of the sample weight in this vial is between 5% over and 2% under the amount shown on the vial. If better precision is required, the deuterated standard should be quantitated against a more precisely weighed unlabeled standard by constructing a standard curve of peak intensity ratios (deuterated *versus* unlabeled).

Description

C18 Ganglioside G_{D1b} is a ganglioside containing stearic acid (Item No. 10011298) as the acyl chain. Brain levels of C18 ganglioside G_{D1b} are increased in a mouse model of Parkinson's disease.[1] *As this product is derived from a natural source, there may be variations in the sphingoid backbone.*

Reference

1. Liu, M.-Y., Wang, J., Meng, X.-Y., *et al.* Exploration of the structural diversity and distribution pattern of gangliosides and sulfatides in mouse brain tissues and biomarkers for Parkinson's Disease. *Lipids Health Dis.* **25(1),** 123 (2026).

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
Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

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