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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

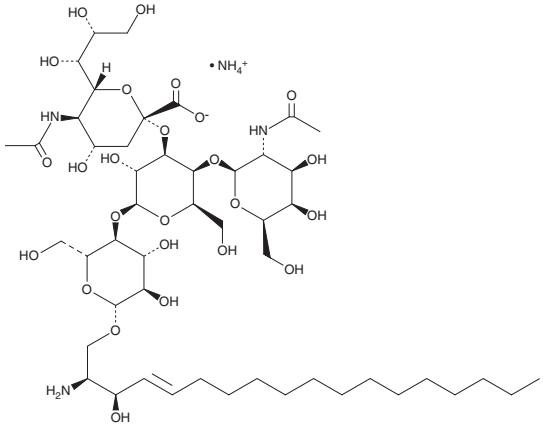
www.szabo-scandic.com

linkedin.com/company/szaboscandic

PRODUCT INFORMATION

Lyso-Monosialoganglioside G_{M2} (ammonium salt)

Item No. 33073



Formal Name: (2S,3R,4E)-2-amino-3-hydroxy-4-octadecen-1-yl O-2-(acetylamino)-2-deoxy-β-D-galactopyranosyl-(1→4)-O-[N-acetyl-α-neuraminosyl-(2→3)]-O-β-D-galactopyranosyl-(1→4)-β-D-glucopyranoside, monoammonium salt

Synonyms: Lysoganglioside G_{M2}, Lyso-G_{M2}

MF: $C_{49}H_{86}N_3O_{25} \bullet NH_4$

FW: 1,135.3

Purity: ≥98%

Supplied as: A solid

Storage: -20°C

Stability: ≥2 years

Special Conditions: Forms micellar solution in water

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

Laboratory Procedures

Lyso-monosialoganglioside G_{M2} (Lyso-G_{M2}) (ammonium salt) is supplied as a solid. A stock solution may be made by dissolving the lyso-G_{M2} (ammonium salt) in the solvent of choice, which should be purged with an inert gas. Lyso-G_{M2} (ammonium salt) is soluble in a 2:1:0.1 solution of chloroform:methanol:DI water.

Description

Lyso-G_{M2} is a form of ganglioside G_{M2} (Item No. 31710) that is lacking the fatty acyl group. Lyso-G_{M2}inhibits PKC in a cell-free assay (IC_{50} = 50 µM).[1] Levels of lyso-G_{M2} are increased in the gray matter of postmortem brain samples from patients with Sandhoff disease or Tay-Sachs disease, as well as in a mouse model of Sandhoff disease.[2,3]

References

1. Hannun, Y.A. and Bell, R.M. Lysosphingolipids inhibit protein kinase C: Implications for the sphingolipidoses. *Science* **235(4789)**, 670-674 (1987).
2. Kobayashi, T., Goto, I., Okada, S., *et al.* Accumulation of lysosphingolipids in tissues from patients with GM1 and GM2 gangliosidoses. *J. Neurochem.* **59(4)**, 1452-1458 (1992).
3. Kodama, T., Togawa, T., Tsukimura, T., *et al.* Lyso-GM2 ganglioside: A possible biomarker of Tay-Sachs disease and Sandhoff disease. *PLoS One* **6(12)**, e29074 (2011).

CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.**CAYMANCHEM**.COM