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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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PRODUCT INFORMATION



Ganglioside GM₂ Asialo Mixture

Item No. 24629

CAS Registry No.: 35960-33-9

Formal Name: 1-O-[O-2-(acetylamino)-2-deoxy-β-D-galactopyranosyl-(1→4)-O-β-D-galactopyranosyl-(1→4)-β-D-glucopyranosyl]-ceramide

Synonyms: Asialo-G_{M2}, Asialoganglioside G_{M2}, Gangliotriaosylceramide,

MF: C₅₆H₁₀₄N₂O₁₈ (for stearoyl)

FW: 1,093.4

Purity: ≥98%

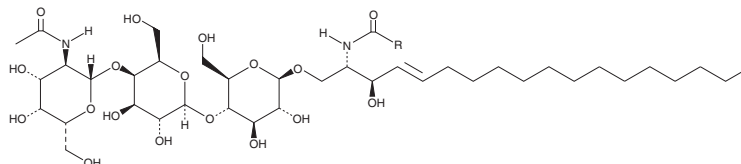
Supplied as: A solid

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

Ganglioside G_{M2} asialo (asialo-G_{M2}) mixture is supplied as a solid. A stock solution may be made by dissolving the asialo-G_{M2} mixture in the solvent of choice. Asialo-G_{M2} mixture is soluble in a 2:1:0.1 solution of chloroform:methanol:DI water.

Description

Asialo-G_{M2} is a glycosphingolipid containing three monosaccharide residues and a fatty acid of variable chain length but lacking the sialic acid residue present on ganglioside M₂. Asialo-G_{M2} levels are low-to-undetectable in normal human brain, but it accumulates in the brain of patients with Tay-Sachs and Sandhoff disease, which are neurodegenerative disorders characterized by deficiency of lysosomal β-hexosaminidase A and B, respectively.¹ It also binds to various bacteria, including *Pseudomonas* isolates derived from cystic fibrosis patients.² Asialo-G_{M2} mixture contains ganglioside G_{M2} asialo molecular species with fatty acyl chains of variable lengths.

References

1. Baek, R.C., Martin, D.R., Cox, N.R., *et al.* Comparative analysis of brain lipids in mice, cats, and humans with Sandhoff disease. *Lipids* **44**(3), 197-205 (2009).
2. Krivan, H.C., Ginsburg, V., and Roberts, D.D. *Pseudomonas aeruginosa* and *Pseudomonas cepacia* isolated from cystic fibrosis patients bind specifically to gangliotetraosylceramide (asialo GM1) and gangliotriaosylceramide (asialo GM2). *Arch. Biochem. Biophys.* **260**(1), 493-496 (1988).

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.

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