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- Trockeneiszuschlag
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- Expressversand

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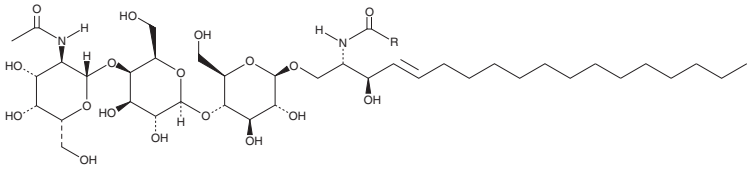
PRODUCT INFORMATION

Ganglioside GM_2 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: $C_{56}H_{104}N_2O_{18}$ (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 M_2. 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).

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