

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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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 in



PRODUCT INFORMAT



Ganglioside G_{M2} Mixture (sodium salt)

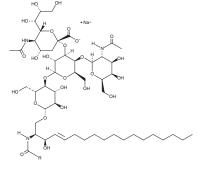
Item No. 27192

CAS Registry No.: 19600-01-2 Synonyms: G_{M2} Mixture,

Monosialoganglioside G_{M2} Mixture

MF: C₆₇H₁₂₀N₃O₂₆ • Na (for stearoyl)

FW: 1,406.7 **Purity:** ≥98% Supplied as: A solid -20°C Storage: Stability: ≥2 years



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

Laboratory Procedures

Ganglioside G_{M2} mixture (sodium salt) is supplied as a solid. A stock solution may be made by dissolving the ganglioside G_{M2} mixture (sodium salt) in the solvent of choice. Ganglioside G_{M2} mixture (sodium salt) is soluble in a 2:1 solution of chloroform:methanol. Ganglioside G_{M2} mixture (sodium salt) is also soluble in water. We do not recommend storing the aqueous solution for more than one day.

Description

Ganglioside G_{M2} is a glycosphingolipid component of cellular membranes, primarily the plasma membrane. Gangliosides isolated from apoptogenic glioblastoma multiforme (GBM) cells are enriched in ganglioside G_{M2} compared with nonapoptogenic GBM cells, and ganglioside G_{M2} induces activated T cell death when used at a concentration of 150 μ g/ml in vitro.² Serum ganglioside G_{M2} levels are increased in patients with breast cancer or cholangiocarcinoma. 3,4 Levels of ganglioside G_{M2} are elevated in the brain of patients with Sandhoff disease, as well as feline and mouse models of the disease.⁵ Ganglioside G_{M2} accumulates in the lysosomes of individuals with Tay-Sachs disease and G_{M2} -activator deficiency, as well as in the CNS of patients with and animal models of mucopolysaccharide storage disorders and Niemann-Pick disease types A, C1, and C2.5,6 Ganglioside G_{M2} mixture contains ganglioside G_{M2} molecular species with C18:1 and C20:1 sphingoid backbones.

References

- 1. Bisel, B., Pavone, F.S., and Calamai, M. GM1 and GM2 gangliosides: Recent developments. Biomol Concepts 5(1), 87-93 (2014).
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- Li, Q., Sun, M., Yu, M., et al. Gangliosides profiling in serum of breast cancer patient: GM3 as a potential diagnostic biomarker. Glycoconj. J. 36(5), 419-428 (2019).
- Talabnin, K., Talabnin, C., Kumagai, T., et al. Ganglioside GM2: A potential biomarker for cholangiocarcinoma. J. Int. Med. Res. 48(7), 1-10 (2020).
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- Walkley, S.U. Secondary accumulation of gangliosides in lysosomal storage disorders. Semin. Cell Dev. Biol. **15(4)**, 433-444 (2004).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

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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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