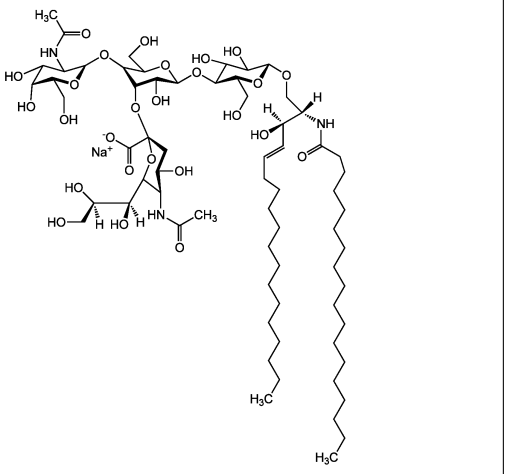
AdipoGen®
www.adipogen.com

PRODUCT DATA SHEET

AG-CN2-9001 15-Mar-2013

Ganglioside GM2 . sodium salt

[GM2 . Na; Monosialoganglioside GM2 . Na]



AG-CN2-9001-M001	1 mg
Formula	$C_{67}H_{120}N_3O_{26}$. Na
MW	1383.7 . 23.0 (calculated on sphingosine C18:1 and stearic acid)
CAS	19600-01-2

Handling / Storage

Shipping	AMBIENT
Short Term Storage	+4°C
Long Term Storage	-20°C

Hygroscopic. Protect from moisture.

Use / Stability

Stable for at least 2 years after receipt when stored at -20°C.

MSDS available at www.adipogen.com or upon request.

Product Specifications

Sequence	Structure: II^3Neu5AcGgOse$_3$Cer; β-GalNAc-(1-4)-[α-Neu5Ac-(2-3)-]β-Gal-(1-4)-β-Glc-(1-1)-Cer; Cer: Sphingosine C18:1-C20:1, ~1:1 by vol.; stearic acid over 90%
Source/Host	Isolated from bovine brain.
Purity	≥98% (TLC)
Identity	Determined by 1H-NMR, MS and HPTLC.
Solubility	Soluble in water (liposomal aggregates) or chloroform:methanol (2:1).
Endotoxin Content	Not detectable.
Formulation	Lyophilized.

Product Description

Gangliosides are acidic glycosphingolipids that form lipid rafts in the outer leaflet of the cell plasma membrane, especially in neuronal cells in the central nervous system. They participate in cellular proliferation, differentiation, adhesion, signal transduction, cell-to-cell interactions, tumorigenesis and metastasis. The accumulation of gangliosides has been linked to several diseases. Ganglioside GM2 is a very minor component of the nervous system, but it is accumulated in brains from Tay-Sachs and Sandhoff disease patients, due to genetic defect of lysosomal β-hexosaminidase.

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Product Specific References

1. Biochemistry and genetics of gangliosidoses: K. Sandhoff & H.Christomanou; Hum. Genet. **50**, 107 (1979)
2. Role of membrane gangliosides in the binding and action of bacterial toxins: P.H. Fishman; J. Membr. Biol. **69**, 85 (1982)
3. Dynamic and structural properties of sphingolipids as driving force to the formation of membrane domains: S. Sonnino, et al.; Chem. Rev. **106**, 2111 (2006)

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