Ganglioside GQ1b . tetrasodium salt (bovine brain)

Brain ganglioside

Gangliosides consist of a ceramide moiety, an oligosaccharide head group, and one or more sialic acids. They are involved in a variety of cellular functions acting as cell adhesion receptors and immunological receptors via the binding of lectins; contributing to cell differentiation, cell signaling, and oncogenesis; participating in myelin stability and nerve regeneration; and operating as an entry point for toxins and viruses. Ganglioside GQ1b consists of a tetra-saccharide core with two sialic acid on the internal galactose and two sialic acid on the non-reducing terminal galactose. Ganglioside GQ1b promotes the differentiation of human neuroblastoma cells, murine embryonic stem cells via the activation of the ERK1/2 pathway, and murine keratinocytes via phosphoinositide turnover.

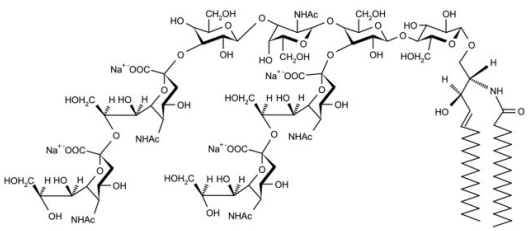
Citations: 2 View Online »

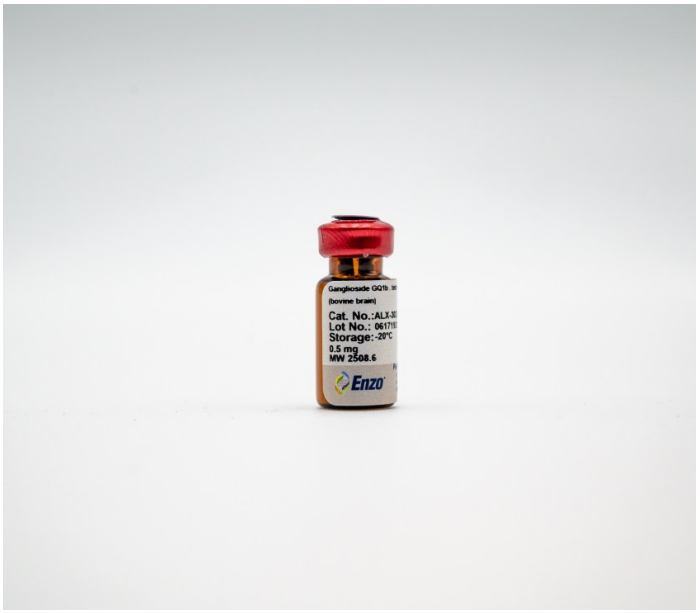
- Highly pure Ganglioside GQ1b isolated from bovine brain
- Used for the differentiation of a variety of cells

Ordering Information Order Online »

ALX-302-012-MC01	0.1mg
ALX-302-012-MC05	0.5mg

Manuals, SDS & CofA View Online »




Ganglioside GQ1b
(bovine brain)
Cat. No.:ALX-3
Lot No.: 0617
Storage:-20°C
0.5 mg
MW 2508.6
Enzo

Handling & Storage

Use/Stability	As indicated on product label or CoA when stored as recommended. If stored at -20°C the product is stable for at least 2 years. After reconstitution the solution should be stored at -20°C and is stable for at least 1 year.
Long Term Storage	-20°C
Shipping	Ambient Temperature

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	GQ1b . 4Na (bovine brain), Tetrasialoganglioside GQ1b . 4Na (bovine brain)
Appearance	Lyophilized.
CAS	68652-37-9
Formula	$C_{106}H_{178}N_6O_{55}$. 4Na
MW	2416.6 . 92.0 (calculated on sphingosine C18:1 and stearic acid)
Purity	≥98% (HPTLC)
Sequence	[II^3(Neu5Ac)$_2$, IV^3(Neu5Ac)$_2$GgOse$_4$Cer] [[α-Neu5Ac-(2→8)-α-Neu5Ac-(2→3)]-β-Gal(1→3)-β-GalNAc-(1→4)-[α-Neu5Ac-(2→8)-α-Neu5Ac-(2→3)]-β-Gal-(1→4)-β-Glc-(1→1')-Cer]
Solubility	Soluble in biological buffers, DMSO, or water.
Source	Bovine brain

Last modified: May 29, 2024

ENZO LIFE SCIENCES, INC.
Phone: 800.942.0430
info-usa@enzolifesciences.com

European Sales Office
ENZO LIFE SCIENCES (ELS) AG
Phone: +41 61 926 8989
info-eu@enzolifesciences.com

Belgium, The Netherlands & Luxembourg
Phone: +32 3 466 0420
info-be@enzolifesciences.com

France
Phone: +33 472 440 655
info-fr@enzolifesciences.com

Germany
Phone: +49 7621 5500 526
info-de@enzolifesciences.com

UK & Ireland
Phone (UK customers): 0845 601 1488
Phone: +44 1392 825900
info-uk@enzolifesciences.com

For local distributors and detailed product information visit us online: enzo.com All product names, logos, and brands are the property of their respective owners.