

Recombinant Human GM2A (C-6His)

Catalog #	EPT064
Expression Host	Human Cells
DESCRIPTION	Recombinant Human Ganglioside GM2 Activator is
	produced by our Mammalian expression system and
	the target gene encoding Ser32-Ile193 is expressed
	with a 6His tag at the C-terminus.
Accession	AAH09273.1
Synonyms	Ganglioside GM2 activator; Cerebroside sulfate
	activator protein; GM2-AP; Sphingolipid activator
	protein 3; SAP-3
Mol Mass	18.6 KDa
AP Mol Mass	19-22 KDa, reducing conditions
Purity	Greater than 95% as determined by reducing
	SDS-PAGE.
Endotoxin	Less than 0.1 ng/ μ g (1 EU/ μ g) as determined by LAL
	test.
FORMULATION	Lyophilized from a 0.2 μ m filtered solution of 20mM
	Tris-HCl, 150mM NaCl, pH 7.5.



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RECONSTITUTION Always centrifuge tubes before opening.Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100µg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles. SHIPPING The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below. **STORAGE** Lyophilized protein should be stored at < -20 ° C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at $< -20^{\circ}$ C for 3 months. BACKGROUND Ganglioside GM2 activator (GM2A) is a small glycolipid transport protein which acts as a substrate specific co-factor for the lysosomal enzyme ß -hexosaminidase A (HEXB). HEXB together with GM2A, catalyzes the degradation of the ganglioside GM2, and

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molecules

containing

N-acetyl

terminal

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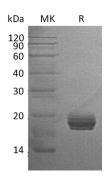
other

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hexosamines. GM2A accommodate several single chain phospholipids and fatty acids, is a lipid transfer protein that stimulates the enzymatic processing of gangliosides, and also T-cell activation through lipid presentation. It extracts single GM2 molecules from membranes and presents them in soluble form to beta-hexosaminidase for cleavage of A N-acetyl-D-galactosamine and conversion to GM3.



SDS-PAGE



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