

GM2A Protein, Human, Recombinant (His & SUMO)

General Information

Synonyms:	Ganglioside GM2 activator;GM2A;Sphingolipid activator protein 3 (SAP-3);GM2-AP; Cerebroside sulfate activator protein
Protein Construction:	32-193 aa
Species:	Human
Expression Host:	E. coli
Accession:	P17900
Molecular Weight:	33.6 kDa (predicted)
AA Sequence:	SSFSWDNCDEGKDPVIRSLTLEPDPIIVPGNVTL SVMGSTSVPLSSPLKVDLVLEKEVAGLWIKIPCTDYIGSCT FEHFCDVLDMLIPTGEPCEPLR TYGLPCHCPFKEGTYS LPKSEFVVPDLELPSWLTTGNYRIESVLSSSGKRLG CIKIAASLKGI

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months.

Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

The large binding pocket can accommodate several single chain phospholipids and fatty acids, GM2A also exhibits some calcium-independent phospholipase activity. Binds gangliosides and stimulates ganglioside GM2 degradation. It stimulates only the breakdown of ganglioside GM2 and glycolipid GA2 by beta-hexosaminidase A. It extracts single GM2 molecules from membranes and presents them in soluble form to beta-hexosaminidase A

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for cleavage of N-acetyl-D-galactosamine and conversion to GM3. Has cholesterol transfer activity.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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