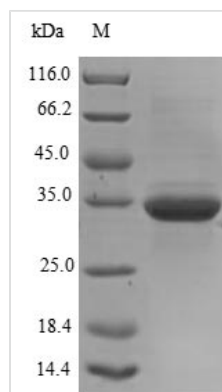




Recombinant Human Ganglioside GM2 activator (GM2A)

Product Code	CSB-EP009565HU
Abbreviation	Recombinant Human GM2A protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P17900
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 85% as determined by SDS-PAGE.
Sequence	SSFSWDNCDEGKDKPAVIRSLTLEPDPIIVPGNVTL SVMGSTSVPLSSPLKVDLV LEKEVAGLWIKIPCTDYIGSCTFEHFCDVLDMLIPTGEPCEPLRTYGLPCHCP FKEGTYS LPKSEFVVPDLELPSWLTTGNYRIESVLSSSGKRLGCIKIAASLKGI
Research Area	Signal Transduction
Source	E.coli
Target Names	GM2A
Protein Names	Recommended name: Ganglioside GM2 activator Alternative name(s): Cerebroside sulfate activator protein GM2-AP Shingolipid activator protein 3 Short name= SAP-3 Cleaved into the following chain: 1. Ganglioside GM2 activator isofo
Expression Region	32-193aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-SUMO-tagged
Mol. Weight	33.6 kDa
Protein Length	Full Length of Mature Protein

Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

The production of this recombinant Human GM2A protein is just like all recombinant proteins. The process involved transfecting E.coli cells with DNA vector containing the template of recombinant DNA. The E.coli cells containing the template were then cultured so that they could transcribe and translate the GM2A protein. N-terminal 6xHis-SUMO tag was used in the process. The purity is 85% determined by SDS-PAGE.

The GM2A gene provides instructions for making a protein named ganglioside GM2 activator (also called cerebroside sulfate activator protein (GM2AP), sphingolipid activator protein 3 (SAP3)). The GM2A protein is involved in various biological processes, including ganglioside catabolic process, lipid storage and transport, neuromuscular process controlling balance, etc. The mature form of ganglioside GM2 activator protein is a small (20 kDa), a heat-stable, long-lived, protease-resistant glycosylated protein that normally resides in the lysosome.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.