Recombinant Human Ganglioside GM2 activator (GM2A)

Product Code	CSB-MP009565HU
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P17900
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	>85% (SDS-PAGE)
Sequence	SSFSWDNCD EGKDPAVIRS LTLEPDPIIV PGNVTLSVMG STSVPLSSPL KVDLVLEKEV AGLWIKIPCT DYIGSCTFEH FCDVLDMLIP TGEPCPEPLR TYGLPCHCPF KEGTYSLPKS EFVVPDLELP SWLTTGNYRI ESVLSSSGKR LGCIKIAASL KGI
Source	Mammalian cell
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	32-193
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full Length of Mature Protein
Target Details	This gene encodes a small glycolipid transport protein which acts as a substrate specific co-factor for the lysosomal enzyme beta-hexosaminidase A. Beta-hexosaminidase A, together with GM2 ganglioside activator, catalyzes the degradation of the ganglioside GM2, and other molecules containing terminal N-acetyl hexosamines. Mutations in this gene result in GM2-gangliosidosis type AB or the AB variant of Tay-Sachs disease. Alternative splicing results in multiple transcript variants.
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.