

Recombinant Human GM2A protein, His-tagged

Cat. No. GM2A-556H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human GM2A(Ser33-Ile193) fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	33-193 a.a.
Description	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.
Form	Filtered (0,4 µm) and lyophilized in 0.5 mg/mL in 0.05 M tris buffer, 0.1 M NaCl, pH 8.0
Molecular Mass	18.7 kDa (calculated)
AA Sequence	MKHHHHHHAS FSWDNCDEGK DPAVIRSLTL EPDPIIVPGN VTLSVMGSTS VPLSSPLKVD LVLEKEVAGL WIKIPCTDYI GSCTFEHFCD VLDMLIPTGE PCPEPLRTYG LPCHCPFKEG TYSLPKSEFV VPDLELP SWL TTGNYRIESV

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	LSSSGKRLGC IKIAASLKGI
Endotoxin	< 1.0 EU/ug
Purity	> 95 %
Applications	ELISA, Western blotting
Storage	Store the lyophilized protein at –80 centigrade. Lyophilized protein remains stable until the expiry date when stored at –80 centigrade. Aliquot reconstituted protein to avoid repeated freezing/thawing cycles and store at –80 centigrade for long term storage. Reconstituted protein can be stored at 4 centigrade for a week.
Reconstitution	Add deionized water to prepare a working stock solution of approximately 0.5 mg/mL and let the lyophilized pellet dissolve completely. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.

GENE INFORMATION

Gene Name	GM2A GM2 ganglioside activator [Homo sapiens]
Official Symbol	GM2A
Synonyms	GM2A; GM2 ganglioside activator; GM2 ganglioside activator protein; ganglioside GM2 activator; cerebroside sulfate activator protein; SAP 3; sphingolipid activator protein 3; shingolipid activator protein 3; SAP-3; GM2-AP;
Gene ID	2760
mRNA Refseq	NM_000405

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Protein Refseq	NP_000396
MIM	613109
UniProt ID	P17900
Chromosome Location	5q33.1
Pathway	Glycosphingolipid metabolism, organism-specific biosystem; Lysosome, organism-specific biosystem; Lysosome, conserved biosystem; Metabolism, organism-specific biosystem; Metabolism of lipids and lipoproteins, organism-specific biosystem; Sphingolipid metabolism, organism-specific biosystem;
Function	beta-N-acetylhexosaminidase activity; hydrolase activity; sphingolipid activator protein activity;

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