

Recombinant Full Length Human GM2A Protein, C-Flag-tagged

Cat. No. GM2A-1665HFL Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human GM2A Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	20.7 kDa
AA Sequence	<p>MQSLMQAPLLIALGLLLAAPAQAHLKKPSQLSSFSWDNCDEGKDPVIRSLTLEPDPI</p> <p>VVPGNVTLSVVG STSVPLSSPLKVDLVLEKEVAGLWIKIPCTDYIGSCTFEHFCDVLD</p> <p>MLIPTGEPCEPLRXYGLPCHCPF</p> <p>KEGTYSLPKSEFVVPDLELPSWLTTGNYRIESVLSSSGKRLGCIKIAASLKGITRTRPL</p> <p>EQKLISEEDLAANDILDYKDDDDKV</p>

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Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	Lysosome
Full Length	Full L.

GENE INFORMATION

Gene Name	GM2A ganglioside GM2 activator [Homo sapiens (human)]
Official Symbol	GM2A
Synonyms	GM2AP; SAP-3; GM2-AP
Gene ID	2760
mRNA Refseq	NM_000405.5
Protein Refseq	NP_000396.2

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MIM	613109
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UniProt ID	P17900
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