

# Recombinant Full Length Human GM2A Protein

**Cat. No.** GM2A-199HF    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant full length Human GM2A with N terminal proprietary tag. Predicted MW 47.3 kDa
<b>Species</b>	Human
<b>Source</b>	In Vitro Cell Free System
<b>ProteinLength</b>	193 amino acids
<b>Description</b>	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.
<b>Form</b>	Liquid
<b>Molecular Mass</b>	47.300kDa inclusive of tags
<b>AA Sequence</b>	MQSLMQAPLLIALGLLLAAPAQAHLKPSQLSSFSWDNCD EGKDPVIRSLTLEPDP IIVPGNVTLSVMGSTSVPLSSPL KVDLVLEKEVAGLWIKIPCTDYIGSCTFEHFCDVLD MLIP TGEP CPEPLR TYGLPCHCPFKEGTYS LPKSEFVVPDLELP SWLTTGNYRIESV LSSSGKRLGCIKIAASLKI

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<b>Purity</b>	Proprietary Purification
<b>Storage</b>	Shipped on dry ice. Upon delivery aliquot and store at -80 centigrade. Avoid freeze / thaw cycles.
<b>Storage Buffer</b>	pH: 8.00. Constituents:0.79% Tris HCl, 0.31% Glutathione.

## GENE INFORMATION

<b>Gene Name</b>	GM2A GM2 ganglioside activator [ Homo sapiens ]
<b>Official Symbol</b>	GM2A
<b>Synonyms</b>	GM2A; GM2 ganglioside activator; GM2 ganglioside activator protein; ganglioside GM2 activator; cerebroside sulfate activator protein; SAP 3; sphingolipid activator protein 3
<b>Gene ID</b>	2760
<b>mRNA Refseq</b>	NM_000405
<b>Protein Refseq</b>	NP_000396
<b>MIM</b>	613109
<b>UniProt ID</b>	P17900

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