

## GM2A Protein, Human (HEK293, His)

<b>Cat. No.:</b>	HY-P70954
<b>Synonyms:</b>	Ganglioside GM2 activator; Cerebroside sulfate activator protein; GM2-AP; Sphingolipid activator protein 3; SAP-3
<b>Species:</b>	Human
<b>Source:</b>	HEK293
<b>Accession:</b>	AAH09273.1 (S32-I193)
<b>Gene ID:</b>	2760
<b>Molecular Weight:</b>	19-22 kDa

### PROPERTIES

<b>AA Sequence</b>	<p>S S F S W D N C D E    G K D P A V I R S L    T L E P D P I I V P    G N V T L S V M G S</p> <p>T S V P L S S P L K    V D L V L E K E V A    G L W I K I P C T D    Y I G S C T F E H F</p> <p>C D V L D M L I P T    G E P C P E P L R T    Y G L P C H C P F K    E G T Y S L P K S E</p> <p>F V V P D L E L P S    W L T T G N Y R I E    S V L S S S G K R L    G C I K I A A S L K</p> <p>G I</p>
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of 20 mM Tris-HCl, 150 mM NaCl, pH 7.5.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Storage &amp; Stability</b>	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	<p>Ganglioside GM2 activator (GM2A) is a small glycolipid transport protein which acts as a substrate specific co-factor for the lysosomal enzyme beta-hexosaminidase A. GM2A, together with beta-hexosaminidase A, catalyzes the degradation of the ganglioside GM2, and other molecules containing terminal N-acetyl hexosamines. Mutations in GM2A result in GM2-gangliosidosis type AB or the AB variant of Tay-Sachs disease.</p> <p>The large binding pocket can accommodate several single chain phospholipids and fatty acids, GM2A also exhibits calcium-independent phospholipase activity, cholesterol transfer activity as well as affects lipid storage and neuromuscular process controlling balance<sup>[1][2]</sup>.</p>
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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