

Recombinant Human GM2A Protein (Met1-Ile193), C-His tagged, Animal-free, Carrier-free

Cat. No. GM2A-128H Lot. No. (See product label)

SPECIFICATION

Product Overview

Recombinant Human GM2A Protein (Met1-Ile193) with C-His tag was expressed in HEK293 and Animal-free as well as Carrier-free.

Species

Human

Source

HEK293

ProteinLength

Met1-Ile193

Description

The human GM2A protein, also known as GM2 ganglioside activator protein, is a small glycoprotein that plays a crucial role in lipid metabolism. It is primarily expressed in lysosomes, where it binds to and facilitates the breakdown of a type of lipid molecule known as GM2 ganglioside. This lipid molecule is typically found in high concentrations in the nervous system and plays a key role in neural signaling. Deficiencies in the GM2A protein have been linked to a rare genetic disorder known as GM2 gangliosidosis, which can lead to the accumulation of GM2 ganglioside in the brain and nervous system. This can result in severe neurological symptoms, including developmental delays, seizures, and loss of motor function. Recent research has also suggested that the GM2A protein may have potential therapeutic applications in the treatment of certain types of cancer. Studies have shown that the protein can help to induce apoptosis (cell death) in cancer cells, and may be able to enhance the effectiveness of certain chemotherapy drugs. Overall, the human GM2A protein plays a critical role in lipid metabolism and has important implications for a range of health

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conditions, from rare genetic disorders to cancer.

Form

Lyophilized

Molecular Mass

The protein has a calculated MW of 21.92 kDa.
The protein migrates as 24 kDa under reducing condition (SDS-PAGE analysis).

Endotoxin

< 1 EU/μg of the protein by the LAL method.

Purity

>95% as determined by SDS-PAGE analysis.

Storage

This product is stable after storage at:
-20 centigrade for 12 months in lyophilized state from date of receipt.
-20 or -80 centigrade for 1 month under sterile conditions after reconstitution.
Avoid repeated freeze/thaw cycles.

Storage Buffer

Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.

Reconstitution

It is recommended to reconstitute the lyophilized protein in sterile H₂O to a concentration not less than 200 μg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.

Shipping

The product is shipped with polar packs. Upon receipt, store it immediately at -20 centigrade or lower for long term storage.

GENE INFORMATION

Gene Name

GM2A GM2 ganglioside activator [Homo sapiens (human)]

Official Symbol

GM2A

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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](#)

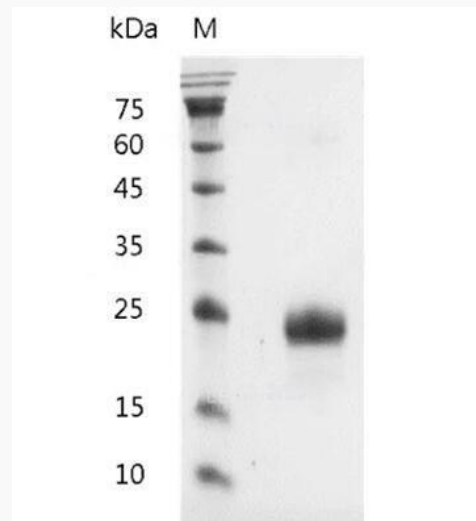
mRNA Refseq [NM_000405](#)

Protein Refseq [NP_000396](#)

MIM [613109](#)

UniProt ID [P17900](#)

**SDS-PAGE analysis
of recombinant
human GM2A.**



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