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Human recombinant GM2A protein, AF

Catalog Number: PROTP17900-2

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Overview

Product Name	Human recombinant GM2A protein, AF
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 conditions, from rare genetic disorders to cancer.
Size	5ug,20ug,100ug
Tag	His Tag (C-term)
Form	Lyophilized
Source	HEK293 cell
Formulation	The protein was lyophilized from a 0.2 um filtered solution containing 1X PBS, pH 7.4. If you have any concerns or special requirements, please confirm with us.

Storage

Lyophilized protein should be stored at -20°C for 1 year. Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months. Avoid repeated freeze/thaw cycles.

Purity

>95% as determined by SDS-PAGE.

Molecular weight

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

Activity

Testing in process

Endotoxin

<1 EU per 1 ug of the protein by the LAL method.

Amino Acid Sequence

A DNA sequence encoding Human GM2A Protein (#P17900)(Met1-Ile193) was expressed with polyhistidine tag at the C-terminus.

Reconstitution

Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H_2O to a concentration not less than 100 ug/mL and incubate the stock solution at room temperature for at least 20 mins to ensure sufficient re-dissolved. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

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Usage

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