

## Human GM2A Protein (C-His)

<b>Catalog Number:</b>	601401, 601402
<b>Size:</b>	25 ug, 100 ug
<b>Target Name:</b>	GM2A, Ganglioside GM2 activator
<b>Regulatory Status:</b>	RUO

### PRODUCT DETAILS

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<b>Application:</b>	ELISA, BLI
<b>Format:</b>	Liquid, Purified
<b>Expression Host:</b>	HEK293
<b>Species:</b>	Human
<b>Accession Number:</b>	P17900
<b>Sources:</b>	Recombinant human GM2A ( His24-Ile193) with C-terminus His tag was expressed in 293 Cells
<b>Molecular Weight:</b>	This protein has a predicted molecular weight of 20 kDa. Under DTT-reducing conditions, the protein migrates at approximately 24 kDa on SDS-PAGE.
<b>Affinity Tag:</b>	C-His
<b>Purity:</b>	>95% based on SDS-PAGE under reducing condition
<b>Formulation:</b>	1xPBS with 300mM NaCl, pH7.4, 0.22 $\mu$ m filtered
<b>Endotoxin level:</b>	Not tested
<b>Protein Concentration:</b>	25 $\mu$ g size is bottled at 0.2mg/mL concentration. 100 $\mu$ g size is supplied at a lot-specific concentration.
<b>Storage and Handling:</b>	Briefly centrifuge the vial upon receipt. An unopened vial can be stored at 4°C for up to 2 weeks, or at -20°C or below for up to six months. The protein may be further diluted to 0.1 mg/mL using 0.22 $\mu$ m-filtered PBS buffer (pH 7.4). For long-term storage, the diluted stock solution should be aliquoted and stored at $\leq$ -70°C to minimize freeze-thaw cycles. If additional dilution is required, carrier proteins such as FBS or BSA should be added to maintain protein stability.

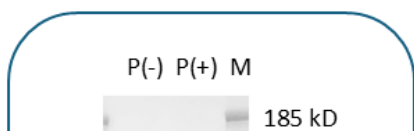
### BACKGROUND INFORMATION

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GM2 ganglioside activator (GM2A) is a lipid transfer protein of the ML domain family that facilitates the degradation of ganglioside GM2 by acting as a substrate-specific cofactor for  $\beta$ -hexosaminidase A. GM2A extracts GM2 from membranes and presents it in soluble form to  $\beta$ -hexosaminidase A for cleavage, enabling conversion to GM3. It can bind several single-chain phospholipids and fatty acids and shows some calcium-independent phospholipase activity. Mutations in GM2A cause GM2-gangliosidosis type AB, a Tay-Sachs disease variant characterized by impaired GM2 degradation and lipid accumulation.

### PRODUCT DATA

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Purified Human GM2A (His24-Ile193, with C-terminus His tag, 293 expressed) final product on SDS-PAGE under reducing (P+) conditions. The purity of Human GM2A appears to be greater than 95%.

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