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# Human GM2A Protein (N-His)

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| **Catalog Number:** | 601501, 601502 |
| **Size:** | 25 ug, 100 ug |
| **Target Name:** | GM2A, Ganglioside GM2 activator |
| **Regulatory Status:** | RUO |

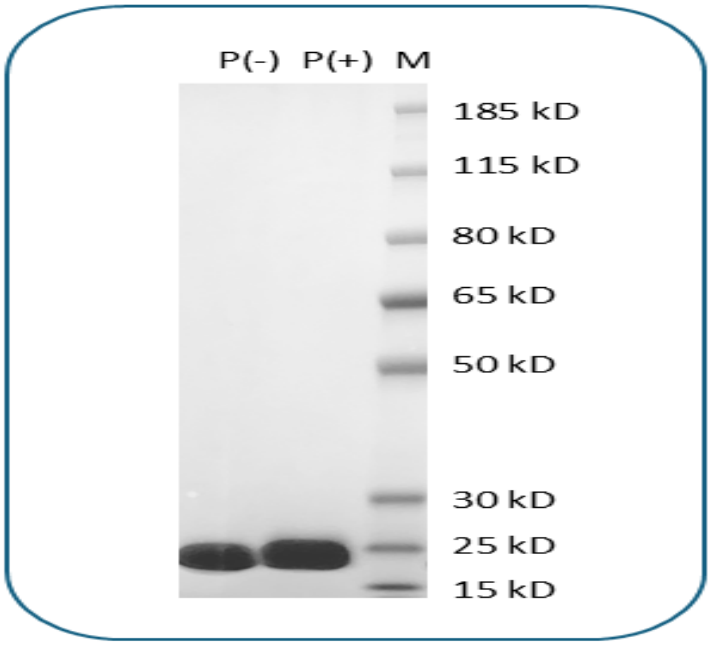
## PRODUCT DETAILS

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| **Application:** | ELISA, BLI |
| **Format:** | Liquid, Purified |
| **Expression Host:** | HEK293 |
| **Species:** | Human |
| **Accession Number:** | P17900 |
| **Sources:** | Recombinant human GM2A mature fragment (Ser32-Ile193) with N-terminus His tag was expressed in 293 Cells |
| **Molecular Weight:** | This protein has a predicted molecular weight of 19.7 kDa. Under DTT-reducing conditions, the protein migrates at approximately 22 kDa on SDS-PAGE. |
| **Affinity Tag:** | N-His |
| **Purity:** | >95% based on SDS-PAGE under reducing condition |
| **Formulation:** | 1xPBS with 300mM NaCl, pH7.4, 0.22 μm filtered |
| **Endotoxin level:** | Not tested |
| **Protein Concentration:** | 25μg size is bottled at 0.2mg/mL concentration. 100 μg size is supplied at a lot-specific concentration. |
| **Storage and Handling:** | 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 μm-filtered PBS buffer (pH 7.4). For long-term storage, the diluted stock solution should be aliquoted and stored at ≤ –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

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 β-hexosaminidase A. GM2A extracts GM2 from membranes and presents it in soluble form to β-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




Purified Human GM2A (His24-Ile193, with N-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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