**InnoCyto Inc.**
15375 Barranca Pkwy, Suite I-103
Irvine, CA 92618

# Technical Data Sheet

Human GM2A Protein (C-His)

**Catalog Number:** 601401, 601402
**Size:** 25 ug, 100 ug
**Target Name:** GM2A, Ganglioside GM2 activator
**Regulatory Status:** RUO

## Product Details

**Application:** ELISA, BLI
**Format:** Liquid, Purified
**Expression Host:** HEK293
**Species:** Human
**Accession Number:** P17900
**Sources:** Recombinant human GM2A ( (His24-Ile193) with C-terminus His tag was expressed in 293 Cells
**Molecular Weight:** This protein has a predicted molecular weight of 20 kDa. Under DTT-reducing conditions, the protein migrates at approximately 24 kDa on SDS-PAGE.
**Affinity Tag:** C-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 ?-hexosaminidase A. GM2A extracts GM2 from membranes and presents it in soluble form to ?-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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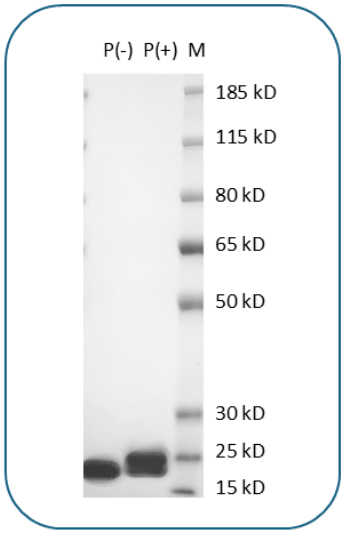


Purified Human GM2A (His24-Ile193, with C-terminus His tag, 293 expressed) final product on SDS-PAGE under reducing (P+) conditions. The purity of Human GM2A appears to be greater than 95%.