

Recombinant Human GPM6A, GST-tagged

Cat. No. GPM6A-13428H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human GPM6A protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.

Species Human

Source E.coli

ProteinLength 1-278a.a.

Description The protein encoded by this gene is a bifunctional enzyme that initiates and regulates the biosynthesis of N-acetylneuraminic acid (NeuAc), a precursor of sialic acids. It is a rate-limiting enzyme in the sialic acid biosynthetic pathway. Sialic acid modification of cell surface molecules is crucial for their function in many biologic processes, including cell adhesion and signal transduction. Differential sialylation of cell surface molecules is also implicated in the tumorigenicity and metastatic behavior of malignant cells. Mutations in this gene are associated with sialuria, autosomal recessive inclusion body myopathy, and Nonaka myopathy. Alternative splicing of this gene results in transcript variants encoding different isoforms.

Storage The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.

Storage Buffer 1M PBS (58mM Na₂HPO₄, 17mM NaH₂PO₄, 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

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GENE INFORMATION

Gene Name	GPM6A glycoprotein M6A [Homo sapiens]
Official Symbol	GPM6A
Synonyms	GPM6A; glycoprotein M6A; GPM6; neuronal membrane glycoprotein M6-a; M6A;
Gene ID	2823
mRNA Refseq	NM_005277
Protein Refseq	NP_005268
MIM	601275
UniProt ID	P51674
Chromosome Location	4q34
Function	calcium channel activity;

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