

# Recombinant Human MGAT5/GGNT5 Protein (His Tag)

Catalog Number: PKSH030446



**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

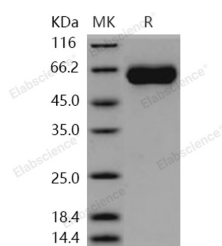
## Description

<b>Synonyms</b>	GNT-V;GNT-VA
<b>Species</b>	Human
<b>Expression Host</b>	HEK293 Cells
<b>Sequence</b>	Leu 189-Leu 741
<b>Accession</b>	NP_002401.1
<b>Calculated Molecular Weight</b>	65.0 kDa
<b>Observed molecular weight</b>	60-65 kDa
<b>Tag</b>	C-His
<b>Bioactivity</b>	Measured by its ability to transfer N-Acetyl- $\alpha$ -D-glucosamine from UDP-N-Acetyl- $\alpha$ -D-glucosamine to a biantennary N-linked core pentasaccharide in a CD39L3 coupled assay. The specific activity is > 10pmoles/min/ $\mu$ g

## Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per $\mu$ g of the protein as determined by the LAL method.
<b>Storage</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from sterile PBS, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

## Data



> 95 % as determined by reducing SDS-PAGE.

## Background

Alpha-1,6-mannosylglycoprotein 6-beta-N-acetylglucosaminyltransferase A, also known as Alpha-mannoside beta-1,6-N-acetylglucosaminyl-transferase, Mannoside acetylglucosaminyltransferase 5, N-acetylglucosaminyl-transferase V, MGAT5 and GGNT5, is a single-pass type II membrane protein which belongs to the glycosyltransferase 18 family. MGAT5 / GGNT5 catalyzes the addition of N-acetylglucosamine in beta 1-6 linkage to the alpha-linked mannose of biantennary N-linked oligosaccharides. It is one of the most important enzymes involved in the regulation of the

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biosynthesis of glycoprotein oligosaccharides. The central nervous system (CNS) is rich in glycoconjugates, located on cell surface and in extracellular matrix. MGAT5 / GGNT5 modification of complex-type N-glycans on CNS glycoproteins is involved in the regulation of depression-like behavior. Inhibitors of MGAT5 / GGNT5 might be useful in the treatment of malignancies by targeting their dependency on focal adhesion signaling for growth and metastasis.

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