Recombinant Human MGAT5 Protein, His tagged

Cat. No. MGAT5-04H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human N-Acetylglucosaminyltransferase V/MGAT5 (Leu189-Leu741) with a C-terminal 10-His tag was expressed in mammalian cells.
Species	Human
Source	Mammalian cells
ProteinLength	189-741 aa
Description	The protein encoded by this gene belongs to the glycosyltransferase family. It catalyzes the addition of beta-1,6-N-acetylglucosamine to the alpha-linked mannose of biantennary N-linked oligosaccharides present on the newly synthesized glycoproteins. It is one of the most important enzymes involved in the regulation of the biosynthesis of glycoprotein oligosaccharides. Alterations of the oligosaccharides on cell surface glycoproteins cause significant changes in the adhesive or migratory behavior of a cell. Increase in the activity of this enzyme has been correlated with the progression of invasive malignancies.
Molecular Mass	65 kDa
Bio-activity	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 > 10 pmol/min/μg.
N-terminal Sequence	Leu189

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Analysis	
Endotoxin	< 1.0 EU/μg of the protein by the LAL method.
Purity	>95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie Blue Staining.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 6 months from date of receipt, -20 to -70 centigrade as supplied. 3 months, -20 to -70 centigrade under sterile conditions after opening.
Storage Buffer	Supplied as a 0.2 μm filtered solution in Tris, NaCl and EDTA.
Shipping	The product is shipped with polar packs.

GENE INFORMATION

Gene Name	MGAT5 alpha-1,6-mannosylglycoprotein 6-beta-N-acetylglucosaminyltransferase [Homo sapiens (human)]
Official Symbol	MGAT5
Synonyms	MGAT5; alpha-1,6-mannosylglycoprotein 6-beta-N-acetylglucosaminyltransferase; GNT-V; GNT-VA; MGAT5A; glcNAc-T V; alpha-1,6-mannosylglycoprotein 6-beta-N-acetylglucosaminyltransferase A; N-acetylglucosaminyl-transferase V; alpha-mannoside beta-1,6-N-acetylglucosaminyltransferase V; mannoside acetylglucosaminyltransferase 5; mannosyl (alpha-1,6-)-glycoprotein beta-1,6-N-acetyl-glucosaminyltransferase; EC 2.4.1.155
Gene ID	4249

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

mRNA Refseq	NM_002410
Protein Refseq	NP_002401
MIM	601774
UniProt ID	Q09328

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA