

Recombinant Human MGAT5 cell lysate

Cat. No. MGAT5-2067HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human MGAT5 / GGNT5 derived in Human Cells. The whole cell lysate is provided in 1X Sample Buffer. Browse all transfected cell lysate positive controls
Species	Human
Source	Human Cells
Preparation method	Transfected cells were cultured for 48hrs before collection. The cells were lysed in modified RIPA buffer with cocktail of protease inhibitors. Cell debris was removed by centrifugation and then centrifuged to clarify the lysate. The cell lysate was boiled for 5 minutes in 1 x SDS sample buffer (50 mM Tris-HCl pH 6.8, 12.5% glycerol, 1% sodium dodecylsulfate, 0.01% bromophenol blue) containing 5% b-mercaptoethanol, and lyophilized.
Lysis buffer	Modified RIPA Lysis Buffer: 50 mM Tris-HCl pH 7.4, 150 mM NaCl, 1mM EDTA, 1% Triton X-100, 0.1% SDS, 1% Sodium deoxycholate, 1mM PMSF
Quality control Testing	12.5% SDS-PAGE Stained with Coomassie Blue
Recommended Usage	1. Centrifuge the tube for a few seconds and ensure the pellet at the bottom of the tube. 2. Re-dissolve the pellet using 200µL pure water and boiled for 2-5 min. 3. Store it at -80°C. Recommend to aliquot the cell lysate into smaller quantities for optimal storage. Avoid repeated freeze-thaw cycles. Notes: The lysate is ready to load on SDS-PAGE for Western blot application. If dissociating conditions are required, add

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	reducing agent prior to heating.
Stability	Samples are stable for up to twelve months from date of receipt at -80°C
Storage Buffer	50 mM Tris-HCl pH 7.4, 150 mM NaCl, 1mM EDTA, 1% Triton X-100, 0.1% SDS, 1% Sodium deoxycholate, 1mM PMSF
Storage Instruction	Lysate samples are stable for 12 months from date of receipt when stored at -80°C. Avoid repeated freeze-thaw cycles. Prior to SDS-PAGE fractionation, boil the lysate for 5 minutes.

GENE INFORMATION

Gene Name	MGAT5 mannosyl (alpha-1,6-)-glycoprotein beta-1,6-N-acetylglucosaminyltransferase [Homo sapiens]
Official Symbol	MGAT5
Synonyms	MGAT5; mannosyl (alpha-1,6-)-glycoprotein beta-1,6-N-acetylglucosaminyltransferase; alpha-1,6-mannosylglycoprotein 6-beta-N-acetylglucosaminyltransferase A; GNT V; glcNAc-T V; N-acetylglucosaminyltransferase V; mannoside acetylglucosaminyltransferase 5; alpha-mannoside beta-1,6-N-acetylglucosaminyltransferase; GNT-V; GNT-VA; FLJ31899; FLJ43217; DKFZp686B24166;
Gene ID	4249
mRNA Refseq	NM_002410
Protein Refseq	NP_002401

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MIM	601774
UniProt ID	Q09328
Chromosome Location	2q21
Pathway	Asparagine N-linked glycosylation, organism-specific biosystem; Metabolic pathways, organism-specific biosystem; Metabolism of proteins, organism-specific biosystem; N-Glycan antennae elongation, organism-specific biosystem; N-Glycan biosynthesis, organism-specific biosystem; N-Glycan biosynthesis, conserved biosystem; N-glycan antennae elongation in the medial/trans-Golgi, organism-specific biosystem;
Function	alpha-1,6-mannosylglycoprotein 6-beta-N-acetylglucosaminyltransferase activity; transferase activity, transferring glycosyl groups;

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