Data Sheet (Cat.No.TMPJ-01092)

TargetMol

MGAT2 Protein, Human, Recombinant (His)

General Information

Synonyms:	Alpha-1;Mannoside Acetylglucosaminyltransferase 2;6-Mannosyl-Glycoprotein 2-β-N-Acetylglucosaminyltransferase;NT-II;GlcNAc-T II;6-Mannosyl-Glycoprotein 2-Beta-N-Acetylglucosaminyltransferase;2-N-acetylglucosaminyltransferase II;β-1;Beta-1;N-Glycosyl-Oligosaccharide-Glycoprotein N-Acetylglucosaminyltransferase II;α-1
Protein Construction:	Arg30-Gln447
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q10469
Molecular Weight:	50 KDa (reducing condition)
AA Sequence:	Arg30-Gln447

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Supplied as a 0.2 μm filtered solution of 20 mM Tris-HCl, 150 mM NaCl, pH 8.0.

Preparation and Storage

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein Background

Mannoside Acetylglucosaminyltransferase 2 (MGAT2) is a single-pass type II membrane protein that contains the typical glycosyltransferase domains: a short N-terminal cytoplasmic domain, a hydrophobic non-cleavable signal-anchor domain and a C-terminal catalytic domain. MGAT2 catalyzes an essential step in the conversion of oligo-mannose to complex N-glycans. Defects in MGAT2 are the cause of congenital disorder of glycosylation type 2A.

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