

MGAT2, 30-447aa Human, His tag, E.coli

Cat.NO.: TP02963

3th Edition

Synonyms: Mannosyl (alpha-1,6-)-glycoprotein beta-1,2-N-acetylglucosaminyltransferase , CDGS2, GLCNACTII, GNT-II, GNT2

Description: MGAT2 is a golgi enzyme catalyzing an essential step in the conversion of oligomannose to complex N-glycans. The enzyme has the typical glycosyltransferase domains: a short N-terminal cytoplasmic domain, a hydrophobic non-cleavable signal-anchor domain, and a C-terminal catalytic domain. Mutations in this gene may lead to carbohydrate-deficient glycoprotein syndrome, type II. Transcript variants with a spliced 5' UTR may exist, but their biological validity has not been determined. Recombinant human MGAT2 protein, fused to His-tag at N-terminus, was expressed in E.coli.

Form: Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol

Molecular Weight: 50 kDa (439aa)

Sequences:

MGSSHHHHHSSGLVPRGSHMRQRKNEALAPLLDAEPARGAGGRGGDHPVAVGIRRVSNVSAASLVPVAVPQP
EADNLTLRYRSLVYQLNFDQTLRNVDKAGTWAPRELVLVVQVHNRPEYLRLLDLSLRKAQGIDNVLVIFSHDFWST
EINQLIAGVNFPCVLQVFFPFSIQLYPNEFPDSDPRDCPRDLPKNAALKLGCINAEYPDSFGHYREAKFSQTKHHW
WWKLHFVWERVKILRDYAGLILFLEEDHYLAPDFYHVFKMMWKLKQEQEPCDVLSLGTYSASRSFYGMADKVDV
KTKWKSTEHNMGLALTRNAYQKLIECTDTFCTYDDYNWDWTLQYLTVSCLPKFWKVLVPQIPRIFHAGDCGMHHKK
TCRPSTQSAQIESLLNNNKQYMFPELTISEKFTVVAISPPRKNNGGWGDIRDHELCKSYRRLQ

Purity: > 95% by HPLC

Concentration: 1.0 mg/ml (determined by Bradford assay)

Endotoxin Level: <1.0 EU per 1 ug of protein (determined by LAL method)

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.