

POMGNT1 Protein, Human (HEK293, His)

Cat. No.:	HY-P71221
Synonyms:	Protein O-Linked-Mannose Beta-1; 2-N-Acetylglucosaminyltransferase 1; POMGnT1; UDP-GlcNAc:Alpha-D-Mannoside Beta-1; 2-N-Acetylglucosaminyltransferase I.2; POMGNT1; MGAT1.2
Species:	Human
Source:	HEK293
Accession:	Q8WZA1 (L59-T660)
Gene ID:	55624
Molecular Weight:	Approximately 74.0 kDa

PROPERTIES

AA Sequence

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LDTRRAISEA   NEDPEPEQDY   DEALGRLEPP   RRRGSGPRRV
LDVEVYSSRS   KVVVAVDGTT   VLEDEAREQG   RGIHVIVLNQ
ATGHVMAKR   FDTYSPHEDE   AMVLF LNMVA   PGRVLICTVK
DEGSFH LKDT   AKALLRSLGS   QAGPALGWRD   TWAFVGRKGG
PVFGEKHSKS   PALSSWGD PV   LLKTDVPLSS   AEEAECHWAD
TELNR RRRRF   CSKVEGYGSV   CSCKDPTPIE   FSPDPLPDNK
VLNV PVAVIA   GNRPNYL YRM   LRSLLSAQGV   SPQMITVFID
GYEE PMDVV   ALFGLRGIQH   TPISIKNARV   SQHYKASLTA
TFNLFPEAKF   AVVLEEDLDI   AVDFFSFLSQ   SIHLL EEDDS
LYCISAWNDQ   GYEHTAEDPA   LLYRVETMPG   LGWVLR RSLY
KEELEPKWPT   PEKLWDWDMW   MRMP EQRRGR   ECIPDVSRS
YHFGIVGLNM   NGYFHEAYFK   KHKFNTVPGV   QLRNVDSLKK
EAYEVEVHRL   LSEAEVLDHS   KNPCEDSFLP   DTEGHTYVAF
IRMEKDDDF T   TWTQLAKCLH   IWDLDV RGNH   RGLWRLFRKK
NHFLMVG VPA   SPYSVKKPPS   VTPIFLEPPP   KEEGAPG APE
QT
  
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Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filtered solution of 20 mM Tris-HCl, 150 mM NaCl, 10% Glycerol, pH 8.5.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background

POMGNT1 Protein plays a pivotal role in O-mannosyl glycosylation by facilitating the addition of N-acetylglucosamine to O-linked mannose residues on glycoproteins. Specifically, it catalyzes the synthesis of the GlcNAc(beta1-2)Man(alpha1-)O-Ser/Thr moiety on alpha-dystroglycan and various other O-mannosylated proteins. This enzymatic activity serves as a fundamental step, laying the groundwork for subsequent additions of carbohydrate moieties. Notably, POMGNT1 demonstrates specificity for alpha-linked terminal mannose and lacks activity corresponding to MGAT3, MGAT4, MGAT5, MGAT7, or MGAT8. The intricate glycosylation process orchestrated by POMGNT1 highlights its essential contribution to the structural complexity and functional diversity of glycoproteins.

Caution: Product has not been fully validated for medical applications. For research use only.

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