

## POMGNT1 Protein, Human, Recombinant (His)

## General Information

Synonyms:	2-N-Acetylglucosaminyltransferase 1;UDP-GlcNAc:α-D-Mannoside β-1;2-N-Acetylglucosaminyltransferase I.2;Protein O-Linked-Mannose β-1;UDP-GlcNAc:Alpha-D-Mannoside β-1;POMGNT1;MGAT1.2;Protein O-Linked-Mannose Beta-1;UDP-GlcNAc:Alpha-D-Mannoside Beta-1
Protein Construction:	Leu59-Thr660
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q8WZA1
Molecular Weight:	74 KDa (reducing condition)
AA Sequence:	Leu59-Thr660

## 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.
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, 10% Glycerol, pH 8.5.

## Preparation and Storage

## Stability &amp; 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

Protein O-Linked-Mannose β-1 2-N-Acetylglucosaminyltransferase 1 (POMGNT1) belongs to the Glycosyltransferase 13 family. Amino acid residues between 299-311 are important for both protein expression and enzymatic activity. The minimal catalytic domain is located between positions 299-651. It is suggested that the stem domain of the soluble form is unnecessary for activity, but that some amino acids play a crucial role in the membrane-bound form. Defects in POMGNT1 are the cause of muscular dystrophy-dystroglycanopathy congenital with brain and eye anomalies type A3 (MDDGA3).

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