# **Recombinant Human POMGNT1 Protein (His Tag)**

#### Catalog No. PKSH032917

Note: Centrifuge before opening to ensure complete recovery of vial contents.

SynonymsProtein O-Linked-Mannose Beta-1;2-N-Acetylglucosaminyltransferase 1;POMGnT1;UDP-GlcNAc:Alpha-D-Mannoside Beta-1;2-N- Acetylglucosaminyltransferase I.2;POMGNT1;MGAT1.2SpeciesHumanExpression HostHEK293 CellsSequenceLeu59-Thr660AccessionQ8WZA1Calculated Molecular Weight69.3 kDaObserved molecular weight74 kDaTagC-HisBioactivityNot validated for activityPropertiesPurity> 90 % as determined by reducing SDS-PAGE.Endotoxin< 1.0 EU per µg of the protein as determined by the LAL method.	Description	
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Glycerol, pH 8.5.	Shipping	
<b>Reconstitution</b> Not Applicable	Formulation	**
**	Reconstitution	Not Applicable

Data



> 90 % as determined by reducing SDS-PAGE.

## Background

Protein O-Linked-Mannose  $\beta$ -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

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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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