Recombinant Human POMGNT1 Protein (His Tag)

Catalog No. PKSH032917

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

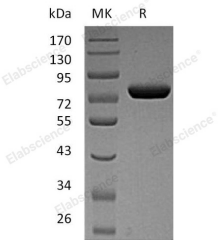
Description

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
Expression Host	HEK293 Cells
Sequence	Leu59-Thr660
Accession	Q8WZA1
Calculated Molecular Weight	69.3 kDa
Observed molecular weight	74 kDa
Tag	C-His
Bioactivity	Not validated for activity

Properties

Purity	> 90 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Storage	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
Shipping	This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < - 20°C.
Formulation	Supplied as a 0.2 μm filtered solution of 20mM Tris-HCl, 150mM NaCl, 10% Glycerol, pH 8.5.
Reconstitution	Not Applicable

Data



> 90 % as determined by reducing SDS-PAGE.

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

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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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