Recombinant RXLT1 protein (His tag)

Catalog Number	548548
Synonyms	Transmembrane protein 5; UDP-D-xylose:ribitol-5-phosphate beta1,4-xylosyltransferase
Species	Human
Expression System	E. coli
Accession	Q9Y2B1
Molecular Weight	Predictes a molecular mass of 41.61 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 42 kDa band.

Product Information

Sequence Region	97-443
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>88%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 97-443 aa (Q9Y2B1) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	Recombinant Ribitol-5-phosphate xylosyltransferase 1 (RXYLT1) fragment (amino acids 97-443) is a high-purity protein designed for structural and biochemical studies. This soluble fragment retains key functional characteristics of the full-length enzyme, enabling research into O-mannosyl glycan biosynthesis and dystroglycan modification pathways. Ribitol-5-phosphate xylosyltransferase 1 (RXYLT1) is a Golgi apparatus membrane protein that functions as a UDP-D-xylose:ribitol-5-phosphate beta1,4-xylosyltransferase. It catalyzes the transfer of UDP-D-xylose to ribitol 5-phosphate to form Xylβ1-4Rbo5P linkages in O-mannosyl glycans. This enzyme plays a critical role in synthesizing the phosphorylated O-mannosyl trisaccharide found on alpha-dystroglycan, which is essential for high-affinity binding to laminin G-like domain-containing extracellular proteins. The full-length protein is a single-pass type II membrane protein localized to the Golgi apparatus membrane.