

Human B3GALTL Protein (His Tag)

Catalog Number: 13957-H07H



Sino Biological Inc.

Biological Solution Specialist

General Information

Gene Name Synonym:

B3GALTL, B3GTL

Protein Construction:

A DNA sequence encoding the human B3GALTL (Ser29-Phe494) was expressed with an N-terminal polyhistidine tag.

Source: Human

Expression Host: Human Cells

QC Testing

Purity: > 95 % as determined by SDS-PAGE

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: His

Molecular Mass:

The recombinant human B3GALTL comprises 486 amino acids and has a predicted molecular mass of 55.4 kDa. The apparent molecular mass of the protein is approximately 54 kDa in SDS-PAGE under reducing conditions due to glycosylation.

Formulation:

Lyophilized from sterile PBS, pH 7.4.

Normally 5 % - 8 % trehalose and mannitol are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

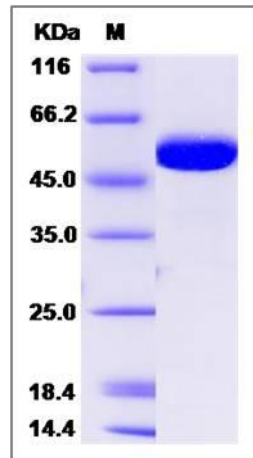
Usage Guide

Storage:

Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

SDS-PAGE:



Reconstitution:

Detailed reconstitution instructions are sent along with the products.

Protein Description

B3GALTL is a beta-1,3-glucosyltransferase that transfers glucose to O-linked fucosylglycans on thrombospondin type-1 repeats (TSRs) of several proteins. B3GALTL is a type II membrane protein. Defects in B3GALTL gene are a cause of Peters-plus syndrome (PPS). As an O-fucosyltransferase, B3GALTL transfers glucose toward fucose with a beta-1,3 linkage. It specifically glucosylates O-linked fucosylglycan on TSP type-1 domains of proteins, thereby contributing to elongation of O-fucosylglycan.

References

1. Heinonen TY. et al., 2003, Biochem Biophys Res Commun. 309 (1): 166-74.
2. Sato T. et al., 2006, Glycobiology. 16 (12): 1194-206.
3. Kozma K. et al., 2006, J Biol Chem. 281 (48): 36742-51.

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