

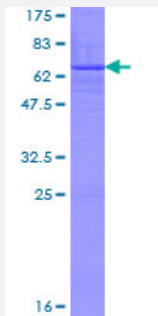
Full-Length

B3GALT3 (Human) Recombinant Protein (P01)

Catalog # H00008706-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human B3GALT3 full-length ORF (AAH28571.1, 1 a.a. - 331 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MASALWTVLPSRMSLRSLKWSLLLLSLLSFFVMWYLSLPHYNVIERVNWMYFYEYEPYRQDFHFT
LREHSNCSHQNLFLVILVTSHPSDVKARQAIRVTWGEKKSWWGYEVLTFLLGQEA EKEDKMLA
LSLEDEHLLYGDIIIRQDFLDTYNNLT LKTIMAFRWVTEFCPNAKYVMKTD TDVFINTGNLVKYLLNLN
HSEKFFTGYPLIDNYSYRGFYQKTHISYQEYPFKVFPYCSGLGYMSRDLVPRIYEMMGHV KPIKFE
DVYVGICLNLLKVNIHIPEDTNLFFLYRIHLDVCQLRRVIAAHGFSSKEITFWQVMLRNTTCHY

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

65.9

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — B3GALNT1

Entrez GeneID [8706](#)

GeneBank Accession# [BC028571.1](#)

Protein Accession# [AAH28571.1](#)

Gene Name B3GALNT1

Gene Alias B3GALT3, GLCT3, GLOB, Gb4Cer, P, P1, beta3Gal-T3, galT3

Gene Description beta-1,3-N-acetylgalactosaminyltransferase 1 (globoside blood group)

Omim ID [111400 603094](#)

Gene Ontology [Hyperlink](#)

Gene Summary

This gene is a member of the beta-1,3-galactosyltransferase (beta3GalT) gene family. This family encodes type II membrane-bound glycoproteins with diverse enzymatic functions using different donor substrates (UDP-galactose and UDP-N-acetylglucosamine) and different acceptor sugars (N-acetylglucosamine, galactose, N-acetylgalactosamine). The beta3GalT genes are distantly related to the Drosophila Brainiac gene and have the protein coding sequence contained in a single exon. The beta3GalT proteins also contain conserved sequences not found in the beta4GalT or alpha3GalT proteins. The carbohydrate chains synthesized by these enzymes are designated as type 1, whereas beta4GalT enzymes synthesize type 2 carbohydrate chains. The ratio of type 1:type 2 chains changes during embryogenesis. By sequence similarity, the beta3GalT genes fall into at least two groups: beta3GalT4 and 4 other beta3GalT genes (beta3GalT1-3, beta3GalT5). The encoded protein of this gene does not use N-acetylglucosamine as an acceptor sugar at all. Multiple transcript variants that are alternatively spliced in the 5' UTR have been described; they all encode the same protein. [provided by RefSeq]

Other Designations

P antigen synthase|P blood group globoside|UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase 1|UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase, polypeptide 3 (Globoside blood group)|UDP-GalNAc:betaGlcNAc beta-1,3-galactosaminyltransferase, polypeptide 1

Pathway

- [Glycosphingolipid biosynthesis - globo series](#)
- [Metabolic pathways](#)