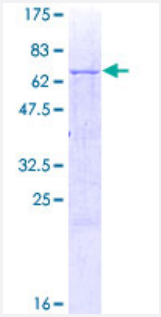
Full-Length

B3GALT4 (Human) Recombinant Protein (P01)

Catalog # H00008705-P01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human B3GALT4 full-length ORF (AAH32574, 1 a.a. - 378 a.a.) recombinant protein with GST-tag a t N-terminal.
Sequence	MQLRLFRRLLLAALLLVIVWTLFGPSGLGEELLSLSLASLLPAPASPGPPLALPRLLIPNQEACSGP GAPPFLLILVCTAPENLNQRNAIRASWGGLREARGLRVQTLFLLGEPNAQHPVWGSQGSDLASE SAAQGDILQAAFQDSYRNLTLKTLSGLNWAEKHCPMARYVLKTDDDVYVNVPELVSELVLRGGR WGQWERSTEPQREAEQEGGQVLHSEEVPLLYLGRVHWRVNPSRTPGGRHRVSEEQWPHTWG PFPPYASGTGYVLSASAVQLILKVASRAPLLPLEDVFVGVSARRGGLAPTQCVKLAGATHYPLDR CCYGKFLLTSHRLDPWKMQEAWKLVGGSDGERTAPFCSWFQGVLGILRCRAIAWLQS
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	67.32
Interspecies Antigen Sequence	Mouse (79); Rat (79)
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 — B3GALT4

Entrez GeneID	8705
GeneBank Accession#	BC032574
Protein Accession#	AAH32574
Gene Name	B3GALT4
Gene Alias	DJ1033B10.3, Gal-T2, GalT4, beta3GALT4, beta3Gal-T4
Gene Description	UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase, polypeptide 4
Omim ID	603095
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). This gene is oriented telomere to centromere in close proximity to the ribosomal protein S18 gene. The functionality of the encoded protein is limited to ganglioseries glycolipid biosynthesis. [provided by RefSeq
Other Designations	OTTHUMP00000029128|UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase 4|beta-3-galactosyltransferase 4

Pathway

- Glycosphingolipid biosynthesis - ganglio series
- Metabolic pathways

Disease

- Genetic Predisposition to Disease
- Lupus Erythematosus