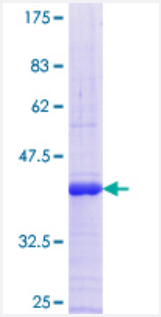
B3GALT1 (Human) Recombinant Protein (Q01)

Catalog # H00008708-Q01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human B3GALT1 partial ORF (NP_066191.1, 59 a.a. - 150 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	NPHSFEFLINEPNKCEKNIPFLVILISTTHKEFDARQAIRETWGDENNFKGIKIATLFLLGKNADPVLN QMVEQESQIFHDIIVEDFIDSYH
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	35.86
Interspecies Antigen Sequence	Mouse (100); Rat (100)
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 — B3GALT1

Entrez GeneID	8708
GeneBank Accession#	NM_020981
Protein Accession#	NP_066191.1
Gene Name	B3GALT1
Gene Alias	MGC126594, beta3Gal-T1
Gene Description	UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase, polypeptide 1
Omim ID	603093
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 expressed exclusively in the brain. The encoded protein shows strict donor substrate specificity for UDP-galactose. [provided by RefSeq
Other Designations	UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase 1|beta-3-galt1

Pathway

- Glycosphingolipid biosynthesis - lacto and neolacto series
- Metabolic pathways