

Recombinant Human B3GALT4 protein, GST-tagged

Cat. No. B3GALT4-010H Lot. No. (See product label)

SPECIFICATION

Product Overview Human B3GALT4 partial ORF (NP_003773.1, 151 a.a. - 250 a.a.) recombinant protein with GST-tag at N-terminal.

Species Human

Source Wheat Germ

Description 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]

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

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Molecular Mass	36.74 kDa
AA Sequence	TLKTL SGLNWA EKHC PMARYVLKTDDD VYVNVPELVSELVLRGGRWGQWERSTEP QREAEQEGGQVLHSEEVPLLYLGRVHWRVNP SRTPGGRHRVSEEQ
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	B3GALT4 UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase, polypeptide 4 [Homo sapiens]
Official Symbol	B3GALT4
Synonyms	GALT2; GALT4; BETA3GALT4
Gene ID	8705
mRNA Refseq	NM_003782.3
Protein Refseq	NP_003773.1
MIM	603095
UniProt ID	B3KQP5

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