

Recombinant Human B3GALT5 protein, GST-tagged

Cat. No. B3GALT5-011H Lot. No. (See product label)

SPECIFICATION

Product Overview Human B3GALT5 partial ORF (NP_006048, 29 a.a. - 128 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 encodes the most probable candidate for synthesis of the type 1 Lewis antigens which are frequently found to be elevated in gastrointestinal and pancreatic cancers. The encoded protein is inactive with N-linked glycoproteins and functions in mucin glycosylation. Five transcript variants have been described which differ in the 5' UTR. All transcript variants encode an identical protein. [provided by RefSeq]

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Form	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Molecular Mass	36.74 kDa
AA Sequence	NPFKEQSFVYKKDGNFLKLPDTCRQTPPFLVLLVTSSHKQLAERMAIRQWTGKER MVKGKQLKTFLLGTTSSAAETKEVDQESQRHGDIIQKDFLDVY
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.

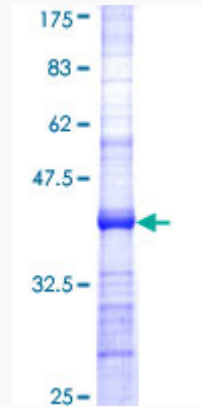
GENE INFORMATION

Gene Name	B3GALT5 UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase, polypeptide 5 [Homo sapiens]
Official Symbol	B3GALT5
Synonyms	B3T5; GLCT5; B3GalTx; B3GalT-V; beta3Gal-T5
Gene ID	10317
mRNA Refseq	NM_006057
Protein Refseq	NP_006048.1
MIM	604066
UniProt ID	Q9Y2C3

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