

Recombinant Full Length Human B3GALT1 Protein, GST-tagged

Cat. No. B3GALT1-1707HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Human B3GALT1 full-length ORF (NP_066191.1, 1 a.a. - 326 a.a.) recombinant protein with GST-tag at N-terminal.

Species

Human

Source

In Vitro Cell Free System

ProteinLength

326 amino acids

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 expressed exclusively in the brain. The encoded protein shows strict donor substrate specificity for UDP-galactose. [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	64.4 kDa
AA Sequence	MASKVSCLYVLTVVCWASALWYLSITRPTSSYTGSKPFSHLTVARKNFTFGNIRTRPI NPHSFEFLINEPNKCEKNIPFLVILISTTHKEFDARQAIRETWGDENNFKGIKIATLFL GKNADPVLNQMVESQIFHDIIVEDFIDSYHNLTCLKTLMGMRWVATFCSKAKYVMK TDSDFVNMDNLIYKLLKPSTKPRRRYFTGYVINGGPIRDVRSKWYMPRDLYPDSNY PPFCSGTGYIFSADVAELIYKTSLHTRLLHLEDVYVGLCLRKLGIHPFQNSGFNHWKM AYSLCRYRRVITVHQISPEEMHRIWNDMSSKKHLRC
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	B3GALT1 UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase, polypeptide 1 [Homo sapiens (human)]
Official Symbol	B3GALT1
Synonyms	B3GALT1; beta3Gal-T1; UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase, polypeptide 1; beta-1,3-galactosyltransferase 1; beta3GalT1; beta-3-galt1; beta-1,3-GalTase 1; UDP-galactose:beta-N-acetyl-glucosamine-beta-1,3-galactosyltransferase 1
Gene ID	8708
mRNA Refseq	NM_020981

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Protein Refseq	NP_066191
MIM	603093
UniProt ID	Q9Y5Z6

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