

## Recombinant Human B3GALT1 protein, GST-tagged

Cat. No. B3GALT1-004H 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** 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 expressed exclusively in the brain. The encoded protein shows strict donor substrate specificity for UDP-galactose. [provided by RefSeq]

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

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<b>Molecular Mass</b>	64.4 kDa
<b>AA Sequence</b>	MASKVSCLYVLTVVCWASALWYLSITRPTSSYTGSKPFSHLTVARKNFTFGNIRTRPI NPHSFEFLINEPNKCEKNIPFLVILISTTHKEFDARQAIRETWGDENNFKGIKIATLFL GKNADPVLNQMVEQESQIFHDIIVEDFIDSYHNLTLKTLMGMRWVATFCSKAKYVMK TDSDFVNMDNLIYKLLKPSTKPRRRYFTGYVINGGPIRDVRSKWYMPRDLYPDSNY PPFCSGTGYIFSADVAELIYKTSLHTRLLHLEDVYVGLCLRKLGHPFQNSGFNHWKM AYSLCRYRRVITVHQISPEEMHRIWNDMSSKKHLRC
<b>Notes</b>	Best use within three months from the date of receipt of this protein.
<b>Storage</b>	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	<a href="#">B3GALT1</a> UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase, polypeptide 1 [ Homo sapiens (human) ]
<b>Official Symbol</b>	<a href="#">B3GALT1</a>
<b>Synonyms</b>	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; NP_066191.1; EC 2.4.1.179
<b>Gene ID</b>	<a href="#">8708</a>
<b>mRNA Refseq</b>	<a href="#">NM_020981</a>
<b>Protein Refseq</b>	<a href="#">NP_066191</a>

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<b>MIM</b>	603093
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<b>UniProt ID</b>	Q9Y5Z6
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