

# Recombinant Full Length Human B4GALT4 Protein, GST-tagged

Cat. No. B4GALT4-1743HF Lot. No. (See product label)

## SPECIFICATION

### Product Overview

Human B4GALT4 full-length ORF ( AAH04523.1, 1 a.a. - 344 a.a.) recombinant protein with GST-tag at N-terminal.

### Species

Human

### Source

In Vitro Cell Free System

### ProteinLength

344 amino acids

### Description


This gene is one of seven beta-1,4-galactosyltransferase (beta4GalT) genes. They encode type II membrane-bound glycoproteins that appear to have exclusive specificity for the donor substrate UDP-galactose; all transfer galactose in a beta1,4 linkage to similar acceptor sugars: GlcNAc, Glc, and Xyl. Each beta4GalT has a distinct function in the biosynthesis of different glycoconjugates and saccharide structures. As type II membrane proteins, they have an N-terminal hydrophobic signal sequence that directs the protein to the Golgi apparatus and which then remains uncleaved to function as a transmembrane anchor. By sequence similarity, the beta4GalTs form four groups: beta4GalT1 and beta4GalT2, beta4GalT3 and beta4GalT4, beta4GalT5 and beta4GalT6, and beta4GalT7. The enzyme encoded by this gene appears to mainly play a role in glycolipid biosynthesis. Two alternatively spliced transcript variants have been found for this gene.

### Form

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

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<b>Molecular Mass</b>	66.4 kDa
<b>AA Sequence</b>	MGFNLTFFHLSYKFRLLLLLTLCLTVVGWATSNYFVGAIQEIPKAKEFMANFHKTLILGK GKTLTNEASTKKVELDNCPSVSPYLRGQSKLIFKPDLTLEEVAENPKVSRGRYRPE ECKALQRVAILVPHRNREKHLMYLLEHLHPFLQRQQLDYGIYVIHQAEQKKNRAKLL NVGYLEALKEENWDCFIFHDVDLVPENDFNLYKCEEHPKHLVVGRNSTGYRLRYSG YFGGVTALSREQFFKVNGFSNNYWGWWGGEDDDLRLRVELQRMKISRPLPEVGKYT MVFHTRDKGNEVNAERMKLLHQVSRVWRTDGLSSCSYKLVSV EHNPLYINITVDFW FGA
<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>Storage Buffer</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	B4GALT4 UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 4 [ Homo sapiens ]
<b>Official Symbol</b>	B4GALT4
<b>Synonyms</b>	B4GALT4; UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 4; beta-1,4-galactosyltransferase 4; beta4Gal T4; beta-1,4-GalTase 4; UDP-Gal:beta-GlcNAc beta-1,4-galactosyltransferase 4; UDP-Gal:betaGlcNAc beta 1,4-galactosyltransferase 4; beta-N-acetylglucosaminyl-glycolipid beta-1,4-galactosyltransferase 4; UDP-galactose:beta-N-acetylglucosamine beta-1,4-galactosyltransferase 4; B4Gal-T4; beta4Gal-T4
<b>Gene ID</b>	8702

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mRNA Refseq	NM_003778
Protein Refseq	NP_003769
MIM	604015
UniProt ID	O60513

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