

Recombinant Human B4GALT4 protein, GST-tagged

Cat. No. B4GALT4-031H **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	Wheat Germ
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.
Molecular Mass	66.4 kDa
AA Sequence	MGFNLT FHLSYKFRLLLLLTLCLTVVGWATSNYFVGAIQEIPKAKEFMANFHKTLILGK

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GKTLTNEASTKKVELDNCPSVSPYLRGQSKLIFKPDLTLEEVQAENPKVSRGRYRPE
ECKALQRVAILVPHRNREKHLMYLLEHLHPFLQRQQLDYGIYVIHQAEKGKFNRAKLL
NVGYLEALKEENWDCFIHFDVLDLPENDFNLYKCEEHPKHLVVGRNSTGYRLRYSG
YFGGVTALSREQFFKVNFGFSNNYWGWWGGEDDDLRLRVELQRMKISRPLPEVGKYT
MVFHTRDKGNEVNAERMKLLHQVSRVWRTDGLSSCSYKLVSVEHNPLYINITVDFW
FGA

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

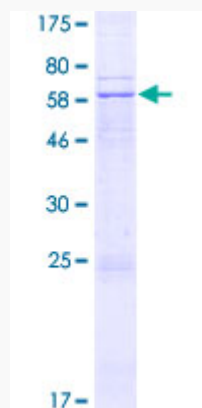
GENE INFORMATION

Gene Name	B4GALT4 UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 4 [Homo sapiens]
Official Symbol	B4GALT4
Synonyms	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;
Gene ID	8702
mRNA Refseq	NM_003778

Protein Refseq NP_003769

MIM 604015

UniProt ID O60513



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