

## Recombinant Full Length Human B4GALT5 Protein

Cat. No. B4GALT5-1744HF Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Human B4GALT5 full-length ORF (ADR82962.1) recombinant protein without tag.

**Species** Human

**Source** In Vitro Cell Free System

**ProteinLength** 388 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 function of the enzyme encoded by this gene is not clear. This gene was previously designated as B4GALT4 but was renamed to B4GALT5. In the literature it is also referred to as beta4GalT2.

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

**Molecular Mass** 42.7 kDa

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**AA Sequence**

MRARRGLLRLPRRSLLAALFFFSLSSSLLYFVYVAPGIVNTYLFMMQAQGILIRDNVR  
 TIGAQVYEQVLR SAYAKRNSSVNDSDYPLDLNHSETFLQTTTFLPEDFTYFANHTCP  
 ERLPSMKGPIDINMSEIGMDYIHELFSKDPTIKLGGHWKPSDCMPRWKVAILIPFRNR  
 HEHLPVLFRRHLLPMLQRQLQFAFYVVEQVGTQPFNRAMLFNVGFQEAMKDLDWD  
 CLIFHDVDHIPESDRNYYGCGQMPRHFATKLDKMYLLPYTEFFGGVSGLTVEQFR  
 KINGFPNAFWGWGGEDDDLWNRVQNAGYSVSRPEGDTGKYKSIPHHHRGEVQFL  
 GRYALLRKS KERQGLDGLNNLN YFANITYDALYKNITVNLTP ELAQVNEY

**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** 25 mM Tris-HCl of pH8.0 containing 2% glycerol.

## GENE INFORMATION

**Gene Name** B4GALT5 UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 5 [ Homo sapiens ]

**Official Symbol** B4GALT5

**Synonyms** B4GALT5; UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 5; beta-1,4-galactosyltransferase 5; beta4 GalT IV; beta4GalT V; beta4-GalT IV; beta-1,4-GalT II; beta-1,4-GalT IV; beta-1,4-GalTase 5; beta-1.4-galactosyltransferase V; UDP-Gal:beta-GlcNAc beta-1,4-galactosyltransferase 5; UDP-Gal:betaGlcNAc beta 1,4-galactosyltransferase, polypeptide 5; UDP-galactose:beta-N-acetylglucosamine beta-1,4-galactosyltransferase 5; gt-V; B4Gal-T5; beta4Gal-T5; beta4GalT-V; BETA4-GALT-IV; MGC138470

**Gene ID** 9334

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mRNA Refseq	NM_004776
Protein Refseq	NP_004767
MIM	604016
UniProt ID	O43286

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