

Recombinant Human B4GALT5, GST-tagged

Cat. No. B4GALT5-10114H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human B4GALT5 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	44-388a.a.
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.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing

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cycles.

Storage Buffer

1M PBS (58mM Na₂HPO₄, 17mM NaH₂PO₄, 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% 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](#)

mRNA Refseq

[NM_004776](#)

Protein Refseq

[NP_004767](#)

MIM

[604016](#)

UniProt ID

[O43286](#)

Chromosome

20q13.1-q13.2

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Location	
Pathway	Asparagine N-linked glycosylation, organism-specific biosystem; Metabolism of proteins, organism-specific biosystem; Mucin type O-Glycan biosynthesis, organism-specific biosystem; Mucin type O-Glycan biosynthesis, conserved biosystem; N-Glycan antennae elongation, organism-specific biosystem; N-glycan antennae elongation in the medial/trans-Golgi, organism-specific biosystem; O-linked glycosylation of mucins, organism-specific biosystem;
Function	galactosyltransferase activity; metal ion binding; transferase activity, transferring glycosyl groups;

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