Recombinant Human B4GALT3 Protein, His-tagged

Cat. No. B4GALT3-315H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human B4GALT3, transcript variant 2, fused with His tag at C-terminal was expressed in HEK293 cells.
Species	Human
Source	HEK293
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. This gene encodes an enzyme that may be mainly involved in the synthesis of the first N-acetyllactosamine unit of poly-N-acetyllactosamine chains. Multiple alternatively spliced transcript variants encoding the same protein have been found for this gene.
Form	Supplied as a 0.2 μM filtered solution of 20mM TrisHCl, 150mM NaCl, 2mM MgCl2, 10%Glycerol, pH7.5

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Molecular Mass	41.5kD
AA Sequence	RSLSALFGRDQGPTFDYSHPRDVYSNLSHLPGAPGGPPAPQGLPYCPERSPLLVGP VSVSFSPVPSLAEIVERNPRVEPGGRYRPAGCEPRSRTAIIVPHRAREHHLRLLLYHL HPFLQRQQLAYGIYVIHQAGNGTFNRAKLLNVGVREALRDEEWDCLFLHDVDLLPE NDHNLYVCDPRGPRHVAVAMNKFGYSLPYPQYFGGVSALTPDQYLKMNGFPNEY WGWGGEDDDIATRVRLAGMKISRPPTSVGHYKMVKHRGDKGNEENPHRFDLLVRT QNSWTQDGMNSLTYQLLARELGPLYTNITADIGTDPRGPRAPSGPRYPPGSSQAFR QEMLQRRPPARPGPLSTANHTALRGSHVDHHHHHH*
Endotoxin	Endotoxin level is <0.1 ng/μg of protein (<1EU/μg).
Purity	>95% as determined by SDS-PAGE and Coomassie blue staining

GENE INFORMATION

Gene Name	B4GALT3 UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 3 [Homo sapiens]
Official Symbol	B4GALT3
Synonyms	B4GALT3; UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 3; beta-1,4-galactosyltransferase 3; beta4Gal T3; b4Gal-T3; beta-1,4-GalTase 3; UDP-Gal:beta-GlcNAc beta-1,4-galactosyltransferase 3; beta-N-acetylglucosaminyl-glycolipid beta-1,4-galactosyltransferase 3; UDP-galactose:beta-N-acetylglucosamine beta-1,4-galactosyltransferase 3; beta4Gal-T3;
Gene ID	8703
mRNA Refseq	NM_001199873

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Protein Refseq	NP_001186802
MIM	604014
UniProt ID	O60512

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