

Recombinant Full Length Human B4GALT3 Protein, GST-tagged

Cat. No. B4GALT3-1655HF Lot. No. (See product label)

SPECIFICATION

Product Overview

Human B4GALT3 full-length ORF (NP_003770.1, 1 a.a. - 393 a.a.) recombinant protein with GST-tag at N-terminal.

Species

Human

Source

In Vitro Cell Free System

ProteinLength

393 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. 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.

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Form	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Molecular Mass	70.3 kDa
AA Sequence	MLRLLERPC TLALLVGSQ L AVMMYLSLGG FRSLSALFGR DQGPTFDYSH PRDVYSNL SH LPGAPGGPPA PQGLPYC PER SPLLVGPVSV SFSPVPSLAE IVERNPRVEP GGRYPAGCE PRSRTAIIVP HRAREHHLRL LLYHLHPFLQ RQQLAYGIYV IHQAGNGTFN RAKLLNVGVR EALRDEEWDC LFLHDVDLLP ENDHNLYVCD PRGPRHVAVA MNKFGYSLPY PQYFGGVSAL TPDQYLKMNG FPNEYWGWGG EDDDIATRVR LAGMKISRPP TSVGHYKMKV HRGDKGNEEN PHRFDLLVRT QNSWTQDGMN SLTYQLLARE LGPLYTNITA DIGTDPRGPR APSGPRYPPG SSQAFRQEML QRRPPARPGP LSTANHTALR GSH
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

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



Protein Refseq	NP_001186802
MIM	604014
UniProt ID	O60512

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