

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	MLRRLLERPC TLALLVGSQ L AVMMYLSLGG FRSLSALFGR DQGPTFDYSH PRDVYSNL SH LPGAPGGPPA PQGLPYC PER SPLLVGPVSV SFSPVPSLAE IVERNPRVEP GGRYPAGCE PRSRTAIIVP HRAREHHLRL LLYHLHPFLQ RQQLAYGIYV IHQAGNGTFN RAKLLNVGVR EALRDEEWDC LFLHDVDLLP ENDNHLYVCD PRGPRHVAVA MNKFGYSLPY PQYFGGVSA L TPDQYLKMNG FPNEYWGWGG EDDDIATRVR LAGMKISRPP TSVGHYKMKV HRGDKGNEEN PHRFDLLVRT QNSWTQDGMN SLTYQLLARE LGPLYTNITA DIGTDPRGPR APSGPRYPPG SSQAFRQEM L 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

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Protein Refseq	NP_001186802
MIM	604014
UniProt ID	O60512

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