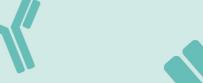
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## Datasheet for ABIN7490703

# **B4GALT1 Protein (Fc Tag)**

#### Overview

Quantity:	100 μg
Target:	B4GALT1
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This B4GALT1 protein is labelled with Fc Tag.

## **Product Details**

Purpose:	Recombinant human B4GALT1 Protein with N-terminal Human Fc tag
Specificity:	HFc (Glu99-Ala330) B4GALT1 (Arg45-Ser398)
Characteristics:	Extracellular Domain Protein
Purity:	The purity of the protein is greater than 95 % as determined by SDS-PAGE and Coomassie blue staining.

# Target Details

Target:	B4GALT1	
Alternative Name:	B4GALT1 (B4GALT1 Products)	
Background:	GGTB2, Beta4Gal-T1, b4Gal-T1, Nal synthase  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 is unique among the beta4GalT genes because it encodes an enzyme that participates both in glycoconjugate and lactose biosynthesis. For the first activity, the enzyme adds galactose to N-acetylglucosamine residues that are either monosaccharides or the nonreducing ends of glycoprotein carbohydrate chains. The second activity is restricted to lactating mammary tissues where the enzyme forms a heterodimer with alpha-lactalbumin to catalyze UDP-galactose D-glucose UDP lactose. The two enzymatic forms result from alternate transcription initiation sites and post-translational processing. Two transcripts, which differ only at the 5' end, with approximate lengths of 4.1 kb and 3.9 kb encode the same protein. The longer transcript encodes the type II membranebound, trans-Golgi resident protein involved in glycoconjugate biosynthesis. The shorter transcript encodes a protein which is cleaved to form the soluble lactose synthase. [provided by RefSeq, Jul 2008]

Molecular Weight:

predicted molecular mass of 65.4 kDa after removal of the signal peptide. The apparent molecular mass of hFc-B4GALT1 is 55-70 kDa due to glycosylation.

UniProt:

P15291

Pathways:

Glycosaminoglycan Metabolic Process

#### **Application Details**

Restrictions:

For Research Use only

### Handling

Format:	Lyophilized
Buffer:	sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose is added as protectants before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing).  Lyophilized proteins are shipped at ambient temperature.

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Expiry Date:

12 months