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Datasheet for ABIN7562892

**B4GALT1 Protein (AA 1-399) (His tag)**

## Overview

Quantity:	1 mg
Target:	B4GALT1
Protein Characteristics:	AA 1-399
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This B4GALT1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

## Product Details

Purpose:	Custom-made recombinat B4galt1 Protein expressed in mammalien cells.
Sequence:	MRFREQFLGG SAAMPGATLQ RACRLLVAVC ALHLGVTLVY YLSGRDLSRL PQLVGVSSSTL QGGTNGAAAS KQPPGEQRPR GARPPPPLGV SPKPRPGLDS SPGAASGPGL KSNLSSLPVP TTTGLLSLPA CPEESPLLVG PMLIDFNIAV DLELLAKKNP EIKTGGRYSP KDCVSPHKVA IIIPFRNRQE HLKYWLYYLH PILQRQQLDY GIYVINQAGD TMFNRAKLLN IGFQEALKDY DYNCFVFSVDV DLIPMDDRNA YRCFSQPRHI SVAMDKFGFS LPYVQYFGGV SALSQQFLA INGFPNNYWG WGGEDDDIFN RLVHKGMSIS RPNNAVVGRCR MIRHSRDKKK EPNPQRFDR AHTKETMRFD GLNSLTYKVL DVQRYPLYTQ ITVDIGTPR <b>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</b>
Characteristics:	Key Benefits:

## Product Details

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- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

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Purity: > 90 % as determined by Bis-Tris Page, Western Blot

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Grade: custom-made

## Target Details

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Target: B4GALT1

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Alternative Name: B4galt1 ([B4GALT1 Products](#))

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Background: Beta-1,4-galactosyltransferase 1 (Beta-1,4-GalTase 1) (Beta4Gal-T1) (b4Gal-T1) (EC 2.4.1.-) (Beta-N-acetylglucosaminyl-glycolipid beta-1,4-galactosyltransferase) (Beta-N-acetylglucosaminylglycopeptide beta-1,4-galactosyltransferase) (EC 2.4.1.38) (Lactose synthase A protein) (EC 2.4.1.22) (N-acetyllactosamine synthase) (EC 2.4.1.90) (Nal synthase) (Neolactotriaosylceramide beta-1,4-galactosyltransferase) (EC 2.4.1.275) (UDP-Gal:beta-GlcNAc beta-1,4-galactosyltransferase 1) (UDP-galactose:beta-N-acetylglucosamine beta-1,4-galactosyltransferase 1) [Cleaved into: Processed beta-1,4-galactosyltransferase 1],FUNCTION: [Beta-1,4-galactosyltransferase 1]: The Golgi complex form catalyzes the production of lactose in the lactating mammary gland and could also be responsible for the synthesis of complex-type N-linked oligosaccharides in many glycoproteins as well as the carbohydrate moieties of glycolipids. {ECO:0000250|UniProtKB:P08037}, FUNCTION: [Processed beta-1,4-galactosyltransferase 1]: The cell surface form functions as a recognition molecule during a variety of cell to cell and cell to matrix interactions, as those occurring during development and egg fertilization, by binding to specific oligosaccharide ligands on opposing cells or in the

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## Target Details

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extracellular matrix. The secreted form is responsible for the synthesis of complex-type to N-linked oligosaccharides in many glycoproteins as well as the carbohydrate moieties of glycolipids. {ECO:0000250|UniProtKB:P08037}.

Molecular Weight: 44.4 kDa

UniProt: [P15535](#)

Pathways: [Glycosaminoglycan Metabolic Process](#)

## Application Details

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Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

## Handling

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Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months