

Datasheet for ABIN7561717

## B4GALT5 Protein (AA 1-388) (His tag)



[Go to Product page](#)

### Overview

Quantity:	1 mg
Target:	B4GALT5
Protein Characteristics:	AA 1-388
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This B4GALT5 protein is labelled with His tag.

### Product Details

Purpose:	Custom-made recombinant B4galt5 Protein expressed in mammalian cells.
Sequence:	<p>MRARRGLLRL PRRSLLAALF FFSLSSSLLY FVYVAPGIVN TYLFMVQAQG ILLRDNVRTI</p> <p>GAQVYEQVVR SAYAKRNSSL NDSYPLDLN HSEAFPPTTT FLPEDFTYFA NHPCPERLPS</p> <p>MKGPIDINMS EIAMDDIHEL FSRDPAIKLG GHWKPADCVF RWKVAILIPF RNRHEHLPVL</p> <p>LRHLLPMLQR QRLQFAFYVI EQVGTQPFNR AMLFNVGFQE AMKDLDWDCL IFHDVDHIPE</p> <p>SDRNYYGCGQ MPRHFATKLD KYMYLLPYTE FFGGVSGTLV EQFRKINGFP NAFWGWGGED</p> <p>DDLWNRVQNA GYSVSRPEGD TGKYKSIPHH HRGEVQFLGR YALLRKSKEK QGLDGLNNLN</p> <p>YSANVTYDAL YKNITVNLTP ELAQVTEY <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></p>
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits:

## Product Details

- 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.

Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

## Target Details

Target:	B4GALT5
Alternative Name:	B4galt5 ( <a href="#">B4GALT5 Products</a> )
Background:	<p>Beta-1,4-galactosyltransferase 5 (Beta-1,4-GalTase 5) (Beta4Gal-T5) (b4Gal-T5) (EC 2.4.1.-) (Beta-1,4-GalT II) (Glucosylceramide beta-1,4-galactosyltransferase) (EC 2.4.1.274) (Lactosylceramide synthase) (LacCer synthase) (UDP-Gal:beta-GlcNAc beta-1,4-galactosyltransferase 5) (UDP-galactose:beta-N-acetylglucosamine beta-1,4-galactosyltransferase 5),FUNCTION: Catalyzes the synthesis of lactosylceramide (LacCer) via the transfer of galactose from UDP-galactose to glucosylceramide (GlcCer) (PubMed:21057870, PubMed:23882130, PubMed:30114188). LacCer is the starting point in the biosynthesis of all gangliosides (membrane-bound glycosphingolipids) which play pivotal roles in the CNS including neuronal maturation and axonal and myelin formation (PubMed:30114188). Plays a role in the glycosylation of BMPR1A and regulation of its protein stability (PubMed:29415997). Essential for extraembryonic development during early embryogenesis (PubMed:20574042, PubMed:21057870). {ECO:0000269 PubMed:20574042, ECO:0000269 PubMed:21057870, ECO:0000269 PubMed:23882130, ECO:0000269 PubMed:29415997, ECO:0000269 PubMed:30114188}.</p>

## Target Details

Molecular Weight:	44.8 kDa
UniProt:	<a href="#">Q9JMK0</a>
Pathways:	<a href="#">Glycosaminoglycan Metabolic Process</a>

## Application Details

Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

## Handling

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