

Datasheet for ABIN7556934

GCNT1 Protein (AA 1-428) (His tag)



[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	GCNT1
Protein Characteristics:	AA 1-428
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GCNT1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Gcnt1 Protein expressed in mammalien cells.
Sequence:	<p>MLRNLFRRL FSCPTKYYFM LLVLSLITFS VLRIHQKPEF FSVRHLELAG DDPYSNVNCT</p> <p>KILQGDPEEI QKVKLEILTV QFKKRPRRTP HDYINMTRDC ASFIRTRKYI VEPLTKEEVG</p> <p>FPIAYSIVVH HKIEMLDRL RAIYMPQNFY CIHVDRKAE SFLAAVQGIA SCFDNVFVAS</p> <p>QLESVVYASW SRVKADLNCM KDLYRMNANW KYLINLCGMD FPIKTNLEIV RKLKCSTGEN</p> <p>NLETEKMPPN KEERWKKRYT VVDGKLTNTG IVKAPPPLKT PLFSGSAYFV VTREYVGYVL</p> <p>ENENIQKLME WAQDTYSPDE FLWATIQRIP EVPGSFPSSN KYDLSMDNAI ARFVKWQYFE</p> <p>GHVSN GAPYP PCSGVHVRSV CVFGAGDLSW MLRQHHLFAN KFDMDVDPFA IQCLDEHLRH</p> <p>KALENLEH 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.</p>
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, Western Blot

Grade: custom-made

Target Details

Target: GCNT1

Alternative Name: Gcnt1 ([GCNT1 Products](#))

Background: Beta-1,3-galactosyl-O-glycosyl-glycoprotein beta-1,6-N-acetylglucosaminyltransferase (EC 2.4.1.102) (Core 2 beta-1,6-N-acetylglucosaminyltransferase) (C2GlcNAcT) (Core 2-branching enzyme) (Core2-GlcNAc-transferase) (C2GNT) (Leukocyte type core 2 beta-1,6-N-acetylglucosaminyltransferase) (C2GnT-L),FUNCTION: Glycosyltransferase that catalyzes the transfer of an N-acetylglucosamine (GlcNAc) moiety in beta1-6 linkage from UDP-GlcNAc onto mucin-type core 1 O-glycan to form the branched mucin-type core 2 O-glycan. The catalysis is metal ion-independent and occurs with inversion of the anomeric configuration of sugar donor (PubMed:9881978, PubMed:12954635, PubMed:22056345). Selectively involved in synthesis of mucin-type core 2 O-glycans that serve as scaffolds for the display of selectin ligand sialyl Lewis X epitope by myeloid cells, with an impact on homeostasis and recruitment to inflammatory sites (PubMed:9881978). Can also act on glycolipid substrates. Transfers GlcNAc moiety to GalGb4Cer globosides in a reaction step to the synthesis of stage-specific embryonic antigen 1 (SSEA-1) determinant (PubMed:7983056). Can use Galbeta1-3GalNAcalpha1-R and Galbeta1-3GalNAcbeta1-R oligosaccharide derivatives as acceptor substrates

Target Details

	(PubMed:7983056). {ECO:0000269 PubMed:12954635, ECO:0000269 PubMed:22056345, ECO:0000269 PubMed:7983056, ECO:0000269 PubMed:9881978}.
Molecular Weight:	49.8 kDa
UniProt:	Q09324

Application Details

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

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