Datasheet for ABIN7554021

GALNT13 Protein (AA 1-556) (His tag)

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Overview

Quantity:	1 mg
Target:	GALNT13
Protein Characteristics:	AA 1-556
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GALNT13 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant GALNT13 Protein expressed in mammalian cells.
Sequence:	MRRFVYCKVV LATSLMWVLV DVFLLLYFSE CNKCDDKKER SLLPALRAVI SRNQEGPGEM GKAVLIPKDD QEKMKELFKI NQFNLMASDL IALNRSLPDV RLEGCKTKVY PDELPNTSVV IVFHNEAWST LLRTVYSVIN RSPHYLLSEV ILVDDASERD FLKLTLENYV KNLEVPVKII RMEERSGLIR ARLRGAAASK GQVITFLDAH CECTLGWLEP LLARIKEDRK TVVCPIIDVI SDDTFEYMAG SDMTYGGFNW KLNFRWYPVP QREMDRRKGD RTLPVRTPTM AGGLFSIDRN YFEEIGTYDA GMDIWGGENL EMSFRIWQCG GSLEIVTCSH VGHVFRKATP YTFPGGTGHV INKNNRRLAE VWMDEFKDFF YIISPGVVKV DYGDVSVRKT LRENLKCKPF SWYLENIYPD SQIPRRYYSL GEIRNVETNQ CLDNMGRKEN EKVGIFNCHG MGGNQVFSYT ADKEIRTDDL CLDVSRLNGP VIMLKCHHMR GNQLWEYDAE RLTLRHVNSN QCLDEPSEED KMVPTMQDCS GSRSQQWLLR NMTLGT **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.**

Product Details

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: • 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:	GALNT13
Alternative Name:	GALNT13 (GALNT13 Products)
Background:	Polypeptide N-acetylgalactosaminyltransferase 13 (EC 2.4.1.41) (Polypeptide GalNAc transferase 13) (GalNAc-T13) (pp-GaNTase 13) (Protein-UDP acetylgalactosaminyltransferase 13) (UDP-GalNAc:polypeptide N-acetylgalactosaminyltransferase 13),FUNCTION: Catalyzes the initial reaction in O-linked oligosaccharide biosynthesis, the transfer of an N-acetyl-D-galactosamine (GalNAc) residue from UDP-GalNAc to a serine or threonine residue on the protein receptor (PubMed:12407114, PubMed:22186971). Generates GalNAc-O-Ser/Thr structure also known as Tn antigen, which itself is immunogenic but also serves as a precursor for the synthesis of different mucin-type O-glycan core structures (PubMed:12407114). Contributes to the synthesis of O-linked glycans on mucins and proteoglycans of the central nervous system. May promote neurogenesis through glycosylation and stabilization of PDPN (PubMed:12407114, PubMed:22186971) (By similarity). {ECO:0000250|UniProtKB:Q8CF93,

Target Details

	ECO:0000269|PubMed:12407114, ECO:0000269|PubMed:22186971}., FUNCTION: [Isoform 1]: Can glycosylate both unmodified peptides and glycopeptides that already contain an O-linked GalNAc sugar. Transfers GalNAc to Thr-/Ser-rich tandem repeats GTTPSPVPTTSTTSAP of MUC5AC, specifically on Thr-3 of non-glycosylated MUC5AC peptide, on Thr-12 and Thr-13 of preglycosylated MUC5AC at Thr-3 (MUC5AC-3), on Thr-3 of preglycosylated MUC5AC at Thr-13 (MUC5AC-13) and on Thr-12 of preglycosylated MUC5AC at Thr-3 and Thr-13 (MUC5AC-3,13). Transfers GalNAc to three consecutive serine/threonine residues on SDC3 forming a triplet-Tn epitope expressed in Purkinje cells of the developing brain. {ECO:0000269|PubMed:12407114, ECO:0000269|PubMed:22186971}., FUNCTION: [Isoform 3]: Can glycosylate both unmodified peptides and glycopeptides that already contain an O-linked GalNAc sugar. Transfers GalNAc to Thr-/Ser-rich tandem repeats GTTPSPVPTTSTTSAP of MUC5AC, specifically on Thr-3 of non-glycosylated MUC5AC peptide, on Thr-12 and Thr-13 of preglycosylated MUC5AC at Thr-3 (MUC5AC-3), on Thr-3 of preglycosylated MUC5AC at Thr-13 (MUC5AC-13) and on Thr-12 of preglycosylated MUC5AC at Thr-3 and Thr-13 (MUC5AC-3,13). {ECO:0000269|PubMed:22186971}.
Molecular Weight:	64.1 kDa
UniProt:	Q8IUC8

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