Datasheet for ABIN7562665

FUT9 Protein (AA 1-359) (His tag)

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Overview

Quantity:	1 mg
Target:	FUT9
Protein Characteristics:	AA 1-359
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This FUT9 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Fut9 Protein expressed in mammalien cells.
Sequence:	MTSTSKGILR PFLIVCIILG CFMACLLIYI KPTNSWVFSP MESASSVLKM KNFFSTKTDY FNETTILVWV WPFGQTFDLT SCQAMFNIQG CHLTTDRSLY NKSHAVLIHH RDISWDLTNL PQQARPPFQK WIWMNLESPT HTPQKSGIEH LFNLTLTYRR DSDIQVPYGF LTVSTNPFVF EVPSKEKLVC WVVSNWNPEH ARVKYYNELS KSIEIHTYGQ AFGEYVNDKN LIPTISTCKF YLSFENSIHK DYITEKLYNA FLAGSVPVVL GPSRENYENY IPADSFIHVE DFNSPSELAK YLKEVDKNNK LYLSYFNWRK DFTVNLPRFW ESHACLACDH VKRHQEYKSV GNLEKWFWN **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.**
Characteristics:	Key Benefits:

Product Details

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalien 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:	FUT9
Alternative Name:	Fut9 (FUT9 Products)
Background:	4-galactosyl-N-acetylglucosaminide 3-alpha-L-fucosyltransferase 9 (EC 2.4.1.152) (Fucosyltransferase 9) (Fucosyltransferase IX) (Fuc-TIX) (FucT-IX) (Galactoside 3-L-fucosyltransferase),FUNCTION: Catalyzes alpha(1->3) linkage of fucosyl moiety transferred from GDP-beta-L-fucose to N-acetyl glucosamine (GlcNAc) within type 2 lactosamine (LacNAc, beta-D-Gal-(1->4)-beta-D-GlcNAc-) glycan attached to glycolipids and N- or O-linked glycoproteins. Fucosylates distal type 2 LacNAc and its fucosylated (H-type 2 LacNAc) and sialylated (sialyl-type 2 LacNAc) derivatives to form Lewis x (Lex) (CD15) and Lewis y (Ley) antigenic epitopes involved in cell adhesion and differentiation (PubMed:9756916, PubMed:12626397, PubMed:15121843, PubMed:16973732, PubMed:22645129) (By similarity). Generates Lex epitopes in the brain, presumably playing a role in the maintenance of neuronal stemness and neurite outgrowth in progenitor neural cells (PubMed:16973732, PubMed:22645129) (By similarity). Fucosylates the internal type 2 LacNAc unit of the polylactosamine chain to form VIM-2 antigen that serves as recognition epitope for SELE (By similarity). Can also modify milk oligosaccharides in particular type 2 tetrasaccharide LNnT

Target Details

	(PubMed:9756916) (By similarity). {ECO:0000250|UniProtKB:Q9Y231, ECO:0000269|PubMed:12626397, ECO:0000269|PubMed:15121843, ECO:0000269|PubMed:16973732, ECO:0000269|PubMed:22645129, ECO:0000269|PubMed:9756916}.
Molecular Weight:	42.0 kDa
UniProt:	O88819

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

