

Datasheet for ABIN7547898
FUT5 Protein (AA 1-374) (His tag)



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Overview

Quantity:	1 mg
Target:	FUT5
Protein Characteristics:	AA 1-374
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This FUT5 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat FUT5 Protein expressed in mammalian cells.
Sequence:	MDPLGPAKPQ WLWRRCLAGL LFQLLVAVCF FSYLRSRDD ATGSPRPGLM AVEPVTGAPN GSRCQDSMAT PAHPTLLILL WTPFNTPVA LPRCSEMPVG AACDNITADS SVYPQADAVI VHHWDIMYNP SANLPPPTRP QGQRWIWFSM ESPSNCRHLE ALDGYFNLTM SYRSDSDIFT PYGWLEPWSG QPAHPPLNLS AKTELVAVAV SNWKPDSARV RYYQSLQAHK KVDVYGRSHK PLPKGTMET LSRYKFYLA ENSLHPDYIT EKLWRNALEA WAVPVVLGPS RSNYERFLPP DAFIHVDDFQ SPKDLARYLQ ELDKDHARYL SYFHWRETLR PRSFSWALAF CKACWKLQQE SRYQTVRSIA AWFT 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 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
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Grade:	custom-made
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Target Details

Target:	FUT5
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Alternative Name:	FUT5 (FUT5 Products)
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Background:	4-galactosyl-N-acetylglucosaminide 3-alpha-L-fucosyltransferase FUT5 (EC 2.4.1.152) (3-galactosyl-N-acetylglucosaminide 4-alpha-L-fucosyltransferase FUT5) (EC 2.4.1.65) (Fucosyltransferase 5) (Fucosyltransferase V) (Fuc-TV) (FucT-V) (Galactoside 3-L-fucosyltransferase),FUNCTION: Catalyzes preferentially the transfer of L-fucose, from a guanosine diphosphate-beta-L-fucose, to the N-acetyl-beta-D-glucosamine (GlcNAc) of an N-acetyllactosamine unit (type 2 chain) of an oligosaccharide, or a glycoprotein- and a glycolipid-linked N-acetyllactosamine unit via an alpha (1,3) linkage and participates in the surface expression of VIM-2, Lewis X/SSEA-1 and sialyl Lewis X antigens (PubMed:14718375, PubMed:1740457, PubMed:7721776, PubMed:9737988, PubMed:17604274, PubMed:9737989, PubMed:29593094). Preferentially transfers fucose to the GlcNAc of an internal N-acetyllactosamine unit of a poly-N-acetyllactosamine chain acceptor substrate (PubMed:7721776, PubMed:17604274). Also catalyzes to a lesser extent the transfer of L-fucose to the GlcNAc of a type 1 (beta-D-galactosyl-(1->3)-N-acetyl-beta-D-glucosaminyl) or H-type 1 (alpha-L-Fuc-(1->2)-beta-D-Gal-(1->3)-D-GlcNAc) chain oligosaccharide via an alpha (1,4)
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Target Details

linkage (PubMed:14718375, PubMed:1740457, PubMed:7721776, PubMed:9737988, PubMed:17604274). Preferentially catalyzes sialylated type 2 oligosaccharide acceptors over neutral type 2 or H type 2 (alpha-L-Fuc-(1->2)-beta-D-Gal-(1->4)-D-GlcNAc) oligosaccharide acceptors (PubMed:1740457, PubMed:9737989). Lactose-based structures are also acceptor substrates (PubMed:1740457, PubMed:7721776). {ECO:0000269|PubMed:14718375, ECO:0000269|PubMed:1740457, ECO:0000269|PubMed:17604274, ECO:0000269|PubMed:7721776, ECO:0000269|PubMed:9737988, ECO:0000269|PubMed:9737989}.

Molecular Weight: 43.0 kDa

UniProt: [Q11128](#)

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