Datasheet for ABIN7547812

CD15 Protein (AA 1-530) (His tag)

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Overview

Quantity:	1 mg
Target:	CD15 (FUT4)
Protein Characteristics:	AA 1-530
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CD15 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant FUT4 Protein expressed in mammalian cells.
Sequence:	MRRLWGAARK PSGAGWEKEW AEAPQEAPGA WSGRLGPGRS GRKGRAVPGW ASWPAHLALA ARPARHLGGA GQGPRPLHSG TAPFHSRASG ERQRRLEPQL QHESRCRSST PADAWRAEAA LPVRAMGAPW GSPTAAAGGR RGWRRGRGLP WTVCVLAAAG LTCTALITYA CWGQLPPLPW ASPTPSRPVG VLLWWEPFGG RDSAPRPPPD CRLRFNISGC RLLTDRASYG EAQAVLFHHR DLVKGPPDWP PPWGIQAHTA EEVDLRVLDY EEAAAAAEAL ATSSPRPPGQ RWVWMNFESP SHSPGLRSLA SNLFNWTLSY RADSDVFVPY GYLYPRSHPG DPPSGLAPPL SRKQGLVAWV VSHWDERQAR VRYYHQLSQH VTVDVFGRGG PGQPVPEIGL LHTVARYKFY LAFENSQHLD YITEKLWRNA LLAGAVPVVL GPDRANYERF VPRGAFIHVD DFPSASSLAS YLLFLDRNPA VYRRYFHWRR SYAVHITSFW DEPWCRVCQA VQRAGDRPKS IRNLASWFER **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:	CD15 (FUT4)
Alternative Name:	FUT4 (FUT4 Products)
Background:	Alpha-(1,3)-fucosyltransferase 4 (4-galactosyl-N-acetylglucosaminide 3-alpha-L-fucosyltransferase) (EC 2.4.1.152) (ELAM-1 ligand fucosyltransferase) (Fucosyltransferase 4) (Fucosyltransferase IV) (Fuc-TIV) (FucT-IV) (Galactoside 3-L-fucosyltransferase),FUNCTION: [Isoform Short]: Catalyzes alpha(1->3) linkage of fucosyl moiety transferred from GDP-beta-L-fucose to N-acetyl glucosamine (GlcNAc) within type 2 lactosamine (LacNAc, Gal-beta(1->4)GlcNAc) glycan attached to N- or O-linked glycoproteins (PubMed:29593094, PubMed:1702034, PubMed:1716630). Robustly fucosylates nonsialylated distal LacNAc unit of the polylactosamine chain to form Lewis X antigen (CD15), a glycan determinant known to mediate important cellular functions in development and immunity. Fucosylates with lower efficiency sialylated LacNAc acceptors to form sialyl Lewis X and 6-sulfo sialyl Lewis X determinants that serve as recognition epitopes for C-type lectins (PubMed:29593094,

Target Details

	PubMed:1716630). Together with FUT7 contributes to SELE, SELL and SELP selectin ligand biosynthesis and selectin-dependent lymphocyte homing, leukocyte migration and blood leukocyte homeostasis (By similarity). In a cell type specific manner, may also fucosylate the internal LacNAc unit of the polylactosamine chain to form VIM-2 antigen that serves as recognition epitope for SELE (PubMed:1716630, PubMed:11278338). {ECO:0000250|UniProtKB:Q11127, ECO:0000269|PubMed:1702034, ECO:0000269|PubMed:1716630, ECO:0000269|PubMed:29593094}., FUNCTION: [Isoform Long]: Does not generate Lewis X antigens. {ECO:0000269|PubMed:29593094}.
Molecular Weight:	59.1 kDa
UniProt:	P22083

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