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# CD15 Protein (AA 1-530) (Strep Tag)



#### Overview

Quantity:	1 mg
Target:	CD15 (FUT4)
Protein Characteristics:	AA 1-530
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CD15 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

### **Product Details**

## 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 Strep-Tag is based on experience s 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:

- Made in Germany from design to production by highly experienced protein experts.
- Protein expressed with ALiCE® and purified by multi-step, protein-specific process to ensure correct folding and modification.
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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 will ensure that you receive a correctly folded protein.

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.

## Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require posttranslational modifications.
- During lysate production, the cell wall and other cellular components that are not required for
  protein production are removed, leaving only the protein production machinery and the
  mitochondria to drive the reaction. During our lysate completion steps, the additional
  components needed for protein production (amino acids, cofactors, etc.) are added to
  produce something that functions like a cell, but without the constraints of a living system all that's needed is the DNA that codes for the desired protein!

#### Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):

- 1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE.
- 2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and

#### Product Details

Product Details	
	Western blot.
Purity:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
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,
	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:	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

# **Application Details**

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	guarantee though.
Comment:	ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from
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	components needed for protein production (amino acids, cofactors, etc.) are added to produce
	something that functions like a cell, but without the constraints of a living system - all that's
	needed is the DNA that codes for the desired protein!
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request,
	please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)