

Datasheet for ABIN3123793 CLEC7A Protein (AA 1-244) (Strep Tag)



Overview

Quantity:	250 µg
Target:	CLEC7A
Protein Characteristics:	AA 1-244
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CLEC7A protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details

Brand:	AliCE®
Sequence:	MKYHSHIENL DEDGYTQLDF STQDIHKRPR GSEKGSQAPS SPWRPIAVGL GILCFVVVVV
	AAVLGALGEY GHNSGRNPEE KDNFLSRNKE NHKPTESSLD EKVAPSKASQ TTGGFSQPCL
	PNWIMHGKSC YLFSFSGNSW YGSKRHCSQL GAHLLKIDNS KEFEFIESQT SSHRINAFWI
	GLSRNQSEGP WFWEDGSAFF PNSFQVRNTA PQESLLHNCV WIHGSEVYNQ ICNTSSYSIC EKEL
	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 in one-step affinity chromatography

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• 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.

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 against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	CLEC7A
Alternative Name:	Clec7a (CLEC7A Products)
Background:	C-type lectin domain family 7 member A (Beta-glucan receptor) (C-type lectin superfamily

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	member 12) (Dendritic cell-associated C-type lectin 1) (DC-associated C-type lectin 1) (Dectin-1
	(CD antigen CD369),FUNCTION: Lectin that functions as a pattern recognizing receptor (PRR)
	specific for beta-1,3-linked and beta-1,6-linked glucans, which constitute cell wall constituents
	from pathogenic bacteria and fungi (PubMed:11544516, PubMed:17159984,
	PubMed:15213161). Necessary for the TLR2-mediated inflammatory response and activation
	of NF-kappa-B: upon beta-glucan binding, recruits SYK via its ITAM motif and promotes a
	signaling cascade that activates some CARD domain-BCL10-MALT1 (CBM) signalosomes,
	leading to the activation of NF-kappa-B and MAP kinase p38 (MAPK11, MAPK12, MAPK13
	and/or MAPK14) pathways which stimulate expression of genes encoding pro-inflammatory
	cytokines and chemokines (PubMed:12719479, PubMed:15731053, PubMed:16825490,
	PubMed:32358020). Enhances cytokine production in macrophages and dendritic cells
	(PubMed:15845454). Mediates production of reactive oxygen species in the cell
	(PubMed:12719479, PubMed:15731053, PubMed:16825490). Mediates phagocytosis of
	C.albicans conidia (PubMed:15729357, PubMed:16825490). Binds T-cells in a way that does
	not involve their surface glycans and plays a role in T-cell activation (PubMed:10779524).
	Stimulates T-cell proliferation (PubMed:10779524). Induces phosphorylation of SCIMP after
	binding beta-glucans (PubMed:27288407). {ECO:0000269 PubMed:10779524,
	EC0:0000269 PubMed:11544516, EC0:0000269 PubMed:12719479,
	EC0:0000269 PubMed:15213161, EC0:0000269 PubMed:15729357,
	ECO:0000269 PubMed:15731053, ECO:0000269 PubMed:15845454,
	EC0:0000269 PubMed:16825490, EC0:0000269 PubMed:17159984,
	EC0:0000269 PubMed:27288407, EC0:0000269 PubMed:32358020}.
Molecular Weight:	27.4 kDa
UniProt:	Q6QLQ4
Pathways:	Activation of Innate immune Response
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.
Comment:	ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from
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Application Details

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Restrictions:

For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months