

Datasheet for ABIN7558095
CLEC7A Protein (AA 1-244) (His tag)



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Overview

Quantity:	1 mg
Target:	CLEC7A
Protein Characteristics:	AA 1-244
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CLEC7A protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Clec7a Protein expressed in mammalian cells.
Sequence:	<p>MKYHSHIENL DEDGYTQLDF STQDIHKRPR GSEKGSQAPS SPWRPIAVGL GILCFVWWW AAVLGALGEY GHNSGRNPEE KDNFLSRNKE NHKPTESLD EKVAPSKASQ TTGGFSQPCL PNWIMHGKSC YLFSFSGNSW YGSKRHCSQL GAHLLKIDNS KEFEFIESQT SSHRINAFWI GLSRNQSEGP WFWEDGSAFF PNSFQVRNTA PQESLLHNCV WIHGSEVYNQ ICNTSSYSIC EKEL</p> <p>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.</p>
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:	<p>Key Benefits:</p> <ul style="list-style-type: none">• Made to order protein - from design to production - by highly experienced protein experts.

Product Details

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

Target Details

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, ECO:0000269|PubMed:11544516, ECO:0000269|PubMed:12719479, ECO:0000269|PubMed:15213161, ECO:0000269|PubMed:15729357, ECO:0000269|PubMed:15731053, ECO:0000269|PubMed:15845454, ECO:0000269|PubMed:16825490, ECO:0000269|PubMed:17159984, ECO:0000269|PubMed:27288407, ECO:0000269|PubMed:32358020}.

Molecular Weight: 27.4 kDa

UniProt: [Q6QLQ4](#)

Pathways: [Activation of Innate immune Response](#)

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