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Datasheet for ABIN3136270

**Nlrp4a Protein (AA 1-982) (Strep Tag)**

## Overview

Quantity:	250 µg
Target:	Nlrp4a (NLRP4A)
Protein Characteristics:	AA 1-982
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Nlrp4a protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

## Product Details

Brand:	AliCE®
Sequence:	MASFFSDFGL MWYLEELNKK EFVKFKEFLK QEVLQLGLKQ VSWTEVKKAS RQDLASLLLK HYEEKPAWDM TFRFFQKINR KDLIERAKRE IDGCPKLYRA HMKTKMTHDS SRAFTISIQN FLKEKFTEDD YDCFENLFQS KGTESKPQVV FLSGGAGVGK TLMLKRLMLA WIESPVFLHK FSYIFYFCCR EVKQLKTASL AELISREWPG PSAPIEEILS KPEKLLFIID SLEGMECDLF KWESELCDNC TEKQPVNLL SLLRRKMLP ESSLLISATP ESFEKMENRI EYTHVKIIG LKERNIKMSF HRLFQDRNRA HEAFSLVREN EQLFTVCQVP VLCWMVATCL KEEIEKGRDP VSICRCTTSL YTTHIFNLFI PQNAHSPSKK SQDQLQGLCS LAAEGMWTD T FVFGEALRR NGIMDSDIPI LLDIGMLINI RESEKSYIFL HPSVQEVCAA IFYLLKSHVD HPSQEVKSIE KLMFAFLKKV KVQWIFFGSF IFGLLHESEQ KKLEAFFGHQ LSQEIQRQLY QCLETISGNE ELQEIQIDGMK LFYCLFEMDD DTFLEAMNC MEQINFAVD YSDVIVAAHC LKHCFTLKKL SFSTQNVLSG AQEHSYMERL LTAWNHCISV FIISKDIQEL RMKDTNLSES AFSVLYNNLK

YHNYTLNVLV ANNVFFVCEK YLFFELIQNC NLQHLNLSLT ILSHSDVKLL CDVLSQAECN  
IEELVVAACS ISSDDCKVFA SVLISNKTLK HLNLASNTLD KGIASLCKSL CHPDCILEHL  
VLANCSLNEK CWDYLSEVLR RNKTLSHLDI SSNDLKDEGL KVLCRALTLP DSVLKSLSLR  
HCLITISGCQ DLAEVLRNNQ NLVSLQVSNN KLEDTGVKLL CDAIKHPNCH LEDLGLEACE  
LTGACCEDLA STFTQCKTLW AMNLLKNALD YNGLVVLCEA LKQQTCATYV LGLQITDFDT  
ETQAFLVAEQ EKNPCLRILS SL

**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.**

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### 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
- 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 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 post-translational 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.

## Product Details

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- 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

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Target: Nlrp4a (NLRP4A)

Alternative Name: Nlrp4a

Background: NACHT, LRR and PYD domains-containing protein 4A (NALP-ita),FUNCTION: May be involved in inflammation and recognition of cytosolic pathogen-associated molecular patterns (PAMPs) not intercepted by membrane-bound receptors. {ECO:0000250}.

Molecular Weight: 112.6 kDa

UniProt: [Q8BU40](#)

## Application Details

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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 *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 post-translational 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!

Restrictions: For Research Use only

## Handling

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