Datasheet for ABIN3093984

NLRP4 Protein (AA 1-994) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	NLRP4
Protein Characteristics:	AA 1-994
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This NLRP4 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MAASFFSDFG LMWYLEELKK EEFRKFKEHL KQMTLQLELK QIPWTEVKKA SREELANLLI KHYEEQQAWN ITLRIFQKMD RKDLCMKVMR ERTGYTKTYQ AHAKQKFSRL WSSKSVTEIH LYFEEEVKQE ECDHLDRLFA PKEAGKQPRT VIIQGPQGIG KTTLLMKLMM AWSDNKIFRD RFLYTFYFCC RELRELPPTS LADLISREWP DPAAPITEIV SQPERLLFVI DSFEELQGGL NEPDSDLCGD LMEKRPVQVL LSSLLRKKML PEASLLIAIK PVCPKELRDQ VTISEIYQPR GFNESDRLVY FCCFFKDPKR AMEAFNLVRE SEQLFSICQI PLLCWILCTS LKQEMQKGKD LALTCQSTTS VYSSFVFNLF TPEGAEGPTP QTQHQLKALC SLAAEGMWTD TFEFCEDDLR RNGVVDADIP ALLGTKILLK YGERESSYVF LHVCIQEFCA ALFYLLKSHL DHPHPAVRCV QELLVANFEK ARRAHWIFLG CFLTGLLNKK EQEKLDAFFG FQLSQEIKQQ IHQCLKSLGE RGNPQGQVDS LAIFYCLFEM QDPAFVKQAV NLLQEANFHI IDNVDLVVSA YCLKYCSSLR KLCFSVQNVF KKEDEHSSTS DYSLICWHHI CSVLTTSGHL RELQVQDSTL SESTFVTWCN

QLRHPSCRLQ KLGINNVSFS GQSVLLFEVL FYQPDLKYLS FTLTKLSRDD IRSLCDALNY PAGNVKELAL VNCHLSPIDC EVLAGLLTNN KKLTYLNVSC NQLDTGVPLL CEALCSPDTV LVYLMLAFCH LSEQCCEYIS EMLLRNKSVR YLDLSANVLK DEGLKTLCEA LKHPDCCLDS LCLVKCFITA AGCEDLASAL ISNQNLKILQ IGCNEIGDVG VQLLCRALTH TDCRLEILGL EECGLTSTCC KDLASVLTCS KTLQQLNLTL NTLDHTGVVV LCEALRHPEC ALQVLGLRKT DFDEETQALL TAEEERNPNL TITDDCDTIT RVEI

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
- 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

- 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:	NLRP4
Alternative Name:	NLRP4 (NLRP4 Products)
Background:	NACHT, LRR and PYD domains-containing protein 4 (Cancer/testis antigen 58) (CT58) (PAAD and NACHT-containing protein 2) (PAN2) (PYRIN and NACHT-containing protein 2) (PYRIN-containing APAF1-like protein 4) (PYPAF4) (Ribonuclease inhibitor 2),FUNCTION: May be involved in inflammation and recognition of cytosolic pathogen-associated molecular patterns (PAMPs) not intercepted by membrane-bound receptors. Acts as a negative regulator of the type I interferon signaling pathway by serving as an adapter to promote DTX4-mediated ubiquitination of activated TBK1, and its subsequent degradation. Suppresses NF-kappaB induction by the cytokines TNFA and IL1B, suggesting that it operates at a point of convergence in these two cytokine signaling pathways. {ECO:0000269|PubMed:12093792, ECO:0000269|PubMed:22388039}.
Molecular Weight:	113.4 kDa
UniProt:	Q96MN2
Pathways:	Inflammasome

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 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

Application Details

	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

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