

Datasheet for ABIN3094011

NLRP2 Protein (AA 1-1062) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	NLRP2
Protein Characteristics:	AA 1-1062
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This NLRP2 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AlIcE®
Sequence:	<p>MVSSAQMGFN LQALLEQLSQ DELSKFKYLI TTFSLAHELQ KIPHKEVDKA DGKQLVEILT</p> <p>THCDSYWVEM ASLQVFEKMH RMDLSERAKD EVREAALKSF NKRKPLSLGI TRKERPPLDV</p> <p>DEMLERFKTE AQAFETETGN VICLGKEVFK GKPKDKNRC RYILKTKFRE MWKSWPGDSK</p> <p>EVQVMAERYK MLIPFSNPRV LPGPFSYTVV LYGPAGLGKT TLAQKLMLDW AEDNLIHKFK</p> <p>YAFYLSCREL SRLGPCSFAE LVFRDWPELQ DDIPHILAQA RKILFVIDGF DELGAAPGAL</p> <p>IEDICGDWEK KKPVPVLLGS LLNRVMLPKA ALLVTTRPRA LRDLRILAE PIYIRVEGFL</p> <p>EEDRRAYFLR HFGDEDQAMR AFELMRSNAA LFQLGSAPAV CWIVCTTLKL QMEKGEDPVP</p> <p>TCLTRTGLFL RFLCSRFPQG AQLRGALRTL SLLAAQGLWA QTSVLHREDL ERLGVQESDL</p> <p>RLFLDGDILR QDRVSKGCYS FIHLSFQQFL TALFYTLEKE EEEDRDGHTW DIGDVQKLLS</p> <p>GVERLRNPD L IQAGYYSFGL ANEKRAKELE ATFGCRMSPD IKQELLRCDI SCKGGHSTVT</p> <p>DLQELLGCLY ESQEEELVKE VMAQFKEISL HLNADVVP SFCVKHCRNL QKMSLQVIKE</p>

NLPENVTASE SDAEVERSQD DQHMLPFWTD LCSIFGSNKD LMGLAINDSF LSASLVRILC
EQIASDTCHL QRVVFKNISP ADAHRNLCLA LRGHKTVTYL TLQGNDQDDM FPALCEVLRH
PECNLRYLGL VSCSATTQQW ADLSLALEVN QSLTCVNLSN NELLDEGAKL LYTTLRHPKC
FLQRSLLENC HLTEANCKDL AAVLVVSREL THLCLAKNPI GNTGVKFLCE GLRYPECKLQ
TLVLWNCDIT SDGCCDLTKL LQEKSSLLCL DLGLNHIGVK GMKFLCEALR KPLCNLRCLW
LWGCSIPPFS CEDLCSALSC NQSLVTLDLG QNPLGSSGVK MLFETLTCSS GTLRTLRLKI
DDFNDELNKL LEEIEEKNPQ LIIDTEKHHP WAERPSSHDF MI

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.

Product Details

- 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:	NLRP2
Alternative Name:	NLRP2 (NLRP2 Products)
Background:	<p>NACHT, LRR and PYD domains-containing protein 2 (Nucleotide-binding site protein 1) (PYRIN domain and NACHT domain-containing protein 1) (PYRIN-containing APAF1-like protein 2), FUNCTION: Suppresses TNF- and CD40-induced NFkB1 activity at the level of the IKK complex, by inhibiting NFkBIA degradation induced by TNF. When associated with PYCARD, activates CASP1, leading to the secretion of mature pro-inflammatory cytokine IL1B. May be a component of the inflammasome, a protein complex which also includes PYCARD, CARD8 and CASP1 and whose function would be the activation of pro-inflammatory caspases. {ECO:0000269 PubMed:15456791}.</p>
Molecular Weight:	120.5 kDa
UniProt:	Q9NX02
Pathways:	Production of Molecular Mediator of Immune Response , Positive Regulation of Endopeptidase Activity , 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 <i>Nicotiana tabacum</i> 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.

Application Details

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
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Handling

Format:	Liquid
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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.
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Handling Advice:	Avoid repeated freeze-thaw cycles.
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Storage:	-80 °C
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Storage Comment:	Store at -80°C.
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Expiry Date:	12 months
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