Datasheet for ABIN3093997

# NLRP5 Protein (AA 1-1200) (Strep Tag)

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## Overview

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| Quantity: | 250 µg |
| Target: | NLRP5 |
| Protein Characteristics: | AA 1-1200 |
| Origin: | Human |
| Source: | Cell-free protein synthesis (CFPS) |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This NLRP5 protein is labelled with Strep Tag. |
| Application: | ELISA, SDS-PAGE (SDS), Western Blotting (WB) |

## Product Details

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| Brand: | AliCE® |
| Sequence: | MKVAGGLELG AAALLSASPR ALVTLSTGPT CSILPKNPLF PQNLSSQPCI KMEGDKSLTF SSYGLQWCLY ELDKEEFQTF KELLKKKSSE STTCSIPQFE IENANVECLA LLLHEYYGAS LAWATSISIF ENMNLRTLSE KARDDMKRHS PEDPEATMTD QGPSKEKVPG ISQAVQQDSA TAAETKEQEI SQAMEQEGAT AAETEEQEIS QAMEQEGATA AETEEQGHGG DTWDYKSHVM TKFAEEEDVR RSFENTAADW PEMQTLAGAF DSDRWGFRPR TVVLHGKSGI GKSALARRIV LCWAQGGLYQ GMFSYVFFLP VREMQRKKES SVTEFISREW PDSQAPVTEI MSRPERLLFI IDGFDDLGSV LNNDTKLCKD WAEKQPPFTL IRSLLRKVLL PESFLIVTVR DVGTEKLKSE VVSPRYLLVR GISGEQRIHL LLERGIGEHQ KTQGLRAIMN NRELLDQCQV PAVGSLICVA LQLQDVVGES VAPFNQTLTG LHAAFVFHQL TPRGVVRRCL NLEERVVLKR FCRMAVEGVW NRKSVFDGDD LMVQGLGESE LRALFHMNIL LPDSHCEEYY TFFHLSLQDF CAALYYVLEG LEIEPALCPL YVEKTKRSME LKQAGFHIHS LWMKRFLFGL VSEDVRRPLE VLLGCPVPLG |

VKQKLLHWVS LLGQQPNATT PGDTLDAFHC LFETQDKEFV RLALNSFQEV WLPINQNLDL IASSFCLQHC PYLRKIRVDV KGIFPRDESA EACPVVPLWM RDKTLIEEQW EDFCSMLGTH PHLRQLDLGS SILTERAMKT LCAKLRHPTC KIQTLMFRNA QITPGVQHLW RIVMANRNLR SLNLGGTHLK EEDVRMACEA LKHPKCLLES LRLDCCGLTH ACYLKISQIL TTSPSLKSLS LAGNKVTDQG VMPLSDALRV SQCALQKLIL EDCGITATGC QSLASALVSN RSLTHLCLSN NSLGNEGVNL LCRSMRLPHC SLQRLMLNQC HLDTAGCGFL ALALMGNSWL THLSLSMNPV EDNGVKLLCE VMREPSCHLQ DLELVKCHLT AACCESLSCV ISRSRHLKSL DLTDNALGDG GVAALCEGLK QKNSVLARLG LKACGLTSDC CEALSLALSC NRHLTSLNLV QNNFSPKGMM KLCSAFACPT SNLQIIGLWK WQYPVQIRKL LEEVQLLKPR VVIDGSWHSF DEDDRYWWKN

**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!

## Product Details

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| | Concentration:<br>• The concentration of our recombinant proteins is measured using the absorbance at 280nm.<br>• The protein's absorbance will be measured against its specific reference buffer.<br>• 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: | NLRP5 |
| Alternative Name: | NLRP5 (NLRP5 Products) |
| Background: | NACHT, LRR and PYD domains-containing protein 5 (Mater protein homolog) (Maternal Antigen that Embryos Require),FUNCTION: As a member of the subcortical maternal complex (SCMC), plays an essential role for zygotes to progress beyond the first embryonic cell divisions via regulation of actin dynamics (By similarity). Required for the formation of F-actin cytoplasmic lattices (CPL) in oocytes, which in turn are responsible for symmetric division of zygotes via the regulation of mitotic spindle formation and positioning (By similarity). Required for the localization of cortical granules to the cortex of oocytes, via association with the cortical actin scaffold (By similarity). Required for cortical actin clearance prior to oocyte exocytosis (By similarity). Involved in regulating post-fertilization Ca(2+) release and endoplasmic reticulum (ER) storage via regulation of ER localization (By similarity). May be involved in the localization of mitochondria to the cytoplasm and perinuclear region in oocytes and early stage embryos, independent of its role in CPL formation (By similarity). {ECO:0000250\|UniProtKB:Q9R1M5}. |
| Molecular Weight: | 134.3 kDa |
| UniProt: | P59047 |
| Pathways: | Inflammasome |

## 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 |

## Application Details

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| | 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.<br>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.<br>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 |