

Datasheet for ABIN7565190
NLRP5 Protein (AA 1-1163) (His tag)



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Overview

Quantity:	1 mg
Target:	NLRP5
Protein Characteristics:	AA 1-1163
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NLRP5 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat Nlrp5 Protein expressed in mammalien cells.
Sequence:	<p>MGPPEKESKA ILKARGLEEE QKSERKMTSP ENDSKSIQKD QGPEQEQTSE STMGPPEKES KAILKARGLE EEQKSERKMT SPENDSKSIQ KDQGPEQEQT SESTMGPPEK DSKAILKARG LEEEQKSEST MSPSENVSRA ILKDSGSEEV EQASERKMTS PENDSKSIQK DQGPEQEQT ETLQSKEEDE VTEADKDNGG DLQDYKAHVI AKFDTSVDLH YDSPMKLLS DAFKPYQKTF QPHTIILHGR PGVGKSALAR SIVLGWAQGK LFKMSFVIF FSVREIKWTE KSSLAQLIAK ECPDSWDLVT KIMSQPERLL FVIDGLDDMD SVLQHDDMTL SRDWKDEQPI YILMYSLLRK ALLPQSFLII TTRNTGLEKL KSMVVSPYI LVEGLSASRR SQLVLENISN ESDRIQVFHS LIENHQLFDQ CQAPSVCSLV CEALQLQKKL GKRCTLPCQT LTGLYATLVF HQLTLKRPSQ SALSQEEQIT LVGLCMMMAE GVWTMRVSFY DDDLKNYSK ESEILALFHM NILLQVGHNS EQCYVFSHLS LQDFFAALYY VLEGLEEWNQ HFCFIENQRS IMEVKRTDDT RLLGMKRFLF GLMNKDILKT LEVLFEYPVI PTVEQKLQHW VSLIAQQVNG TSPMDTLDAF YCLFESQDEE</p>

Product Details

FVGGALKRFQ EVWLLINQKM DLKVSSYCLK HCQNLKAIRV DIRDLLSVDN TLELCPVVTV
QETQCKPLLM EWWGNFCSVL GSLRNLKELD LGDSILSQRA MKILCLELRN QSCRIQKLT
KSAEVVSGLK HLWKLLFSNQ NLKYLNLGNT PMKDDDMKLA CEALKHPKCS VETLRDSC
LTIIGYEMIS TLLISTTRLK CLSLAKNRVG VKSMISLGNA LSSSMCLLQK LILDNCGLTP
ASCHLLVSAL FSNQNLTHLC LSNNSLGTEG VQQLCQFLRN PECALQRLIL NHCNIVDDAY
GFLAMRLANN TKLTHLSLTM NPVGDGAMKL LCEALKEPTC YLQELELVDC QLTQNCCEDL
ACMITTTKHL KSLDLGNNAL GDKGVITLCE GLKQSSSSLR RLGLGACKLT SNCCEALSLA
ISCNPHLNSL NLVKNDFSTS GMLKLCSAFQ CPVSNLGIIG LWKQEYYARV RRQLEEVFV
KPHVVIDGDW YASDEDDRNV WKN **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.**

Characteristics:

Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- 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, Western Blot

Grade:

custom-made

Target Details

Target:

NLRP5

Alternative Name:

Nlrp5 ([NLRP5 Products](#))

Background:

NACHT, LRR and PYD domains-containing protein 5 (Maternal antigen that embryos require) (Mater protein) (Ooplasm-specific protein 1) (OP1),FUNCTION: As a member of the subcortical

Target Details

maternal complex (SCMC), plays an essential role for zygotes to progress beyond the first embryonic cell divisions via regulation of actin dynamics (PubMed:11062459, PubMed:18804437, PubMed:25208553). 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 (PubMed:25208553). Required for the localization of cortical granules to the cortex of oocytes, via association with the cortical actin scaffold (PubMed:31118423). Required for cortical actin clearance prior to oocyte exocytosis and prevention of polyspermy (PubMed:31118423). Involved in regulating post-fertilization Ca(2+) release and endoplasmic reticulum storage (ER) storage via regulation of cellular localization (PubMed:24374158). 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 (PubMed:22357545). {ECO:0000269|PubMed:11062459, ECO:0000269|PubMed:18804437, ECO:0000269|PubMed:22357545, ECO:0000269|PubMed:24374158, ECO:0000269|PubMed:25208553, ECO:0000269|PubMed:31118423}.

Molecular Weight: 131.3 kDa

UniProt: [Q9R1M5](#)

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.

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