

Datasheet for ABIN7554653
NLRP9 Protein (AA 1-991) (His tag)



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Overview

Quantity:	1 mg
Target:	NLRP9
Protein Characteristics:	AA 1-991
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NLRP9 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant NLRP9 Protein expressed in mammalian cells.
Sequence:	MAESFFSDFG LLWYLKELRK EEFWKFKELL KQPLEKFELK PIPWAELKKA SKEDVAKLLD KHYPGKQAWV VTLNLFQIN RKDLWTKAQE EMRNKLNPNYR KHKMETFQLI WEKETCLHVP EHFYKETMKN EYKELNDAYT AAARRHTVVL EPGDGIGKTT LLRKVMLDWA EGNLWKDRFT FVFFLNVCEM NGIAETSLLE LLSRDWPRESS EKIEDIFSQP ERILFIMDGF EQLKFNLQLK ADLSDDWRQR QPMPIILSSL LQKKMLPESS LLIALGKLAM QKHYFMLRHP KLIKLLGFSE SEKKSYSYF FGEKSKALKV FNFVRDNGPL FILCHNPFTC WLVTCTVKQR LERGEDLEIN SQNTTYLYAS FLTTVFKAGS QSFPPKVNRA RLKSLCALAA EGIWYTFVF SHGDLRRNGL SESEGMWVG MRLQRRGDC FAFMHLCIQE FCAAMFYLLK RPKDDPNPAI GSITQLVRAS VVQPQTLTQ VGIFMFGIST EEIVSMLETS FGFPLSKDLK QEITQCLES L SQCEADREAI AFQELFIGLF ETQEKEFVTK VMNFFEEVFI YIGNIEHLVI ASFCLKHCQH LTTLRMCVEN IFPDDSGCIS DYNEKLVYWR ELCSMFITNK NFQILDMENT SLDDPSLAIL CKALAQPVCK LRKLIFTSVY FGHDSSELFKA VLHNPHLKLK SLYGTSLSQS DIRHLCETLK HPMCKIEELI

Product Details

LGKCDISSEV CEDIASVLAC NSKCLKHLSLV ENPLRDEGMT LLCEALKHSH CALERLMLMY
CCLTSVSCDS ISEVLLCSKS LSLLDLGSNA LEDNGVASLC AALKHPGCSI RELWLMGCFL
TSDSCKDIAA VLICNGKCLKT LKLGHNEIGD TGVQRQCAAL QHPHCKLECL GLQTCPI TRA
CCDDIAAALI ACKTLRSLNL DWIALDADAV VVLCALSHP DCALQMLGLH KSGFDEETQK
ILMSVEEKIP HLTISHGPWI DEEYKIRGVL L **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.**

Specificity: If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

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, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade: custom-made

Target Details

Target: NLRP9

Alternative Name: NLRP9 ([NLRP9 Products](#))

Background: NACHT, LRR and PYD domains-containing protein 9 (Nucleotide-binding oligomerization domain protein 6) (PYRIN and NACHT-containing protein 12),FUNCTION: As the sensor component of the NLRP9 inflammasome, plays a crucial role in innate immunity and

Target Details

inflammation. In response to pathogens, including rotavirus, initiates the formation of the inflammasome polymeric complex, made of NLRP9, PYCARD and CASP1. Recruitment of proCASP1 to the inflammasome promotes its activation and CASP1-catalyzed IL1B and IL18 maturation and release in the extracellular milieu. The active cytokines stimulate inflammatory responses. Inflammasomes can also induce pyroptosis, an inflammatory form of programmed cell death. NLRP9 inflammasome activation may be initiated by DHX9 interaction with viral double-stranded RNA (dsRNA), preferentially to short dsRNA segments. {ECO:0000269|PubMed:28636595}.

Molecular Weight: 113.3 kDa

UniProt: [Q7RTR0](#)

Pathways: [Inflammasome](#)

Application Details

Application Notes: We expect the protein to work for functional studies. 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