

NLRP3 recombinant protein

Human NLRP3 Protein, DYKDDDDK Tag

CATALOG #
AAA47508

HOST
HEK293

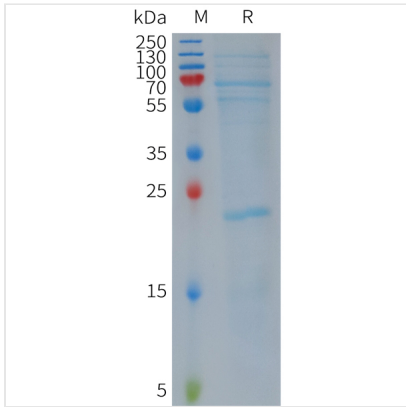
PRODUCT SYNONYMS

NLRP3; Human NLRP3 Protein; DYKDDDDK Tag; AGTAVPRL; All; AVP; C1orf7; CIAS1; CLR1.1; DFNA34; FCAS; FCAS1; FCU; KEFH; MWS; NALP3; PYPAF1; NLRP3 recombinant protein

PRODUCT SPECIFICATIONS

Host	HEK293
Purity/Purification	> 85% as determined by SDS-PAGE and Coomassie blue staining.
Form/Format	Lyophilized from sterile PBS, pH7.4. Normally 5%-8% trehalose is added as protectants before lyophilization.
Concentration	1.92 mg/mL (varies by lot)
Molecular Characterization	NLRP3 (Lys2-Trp1036) ; DYKDDDDK
Tag	C-DYKDDDDK Tag
Reconstitution	1) Before opening the tube cap , centrifuge the sample tube at 5000g for 3-5 minutes at room temperature to ensure the lyophilized sample to settle down at the bottom of the tube. 2) Dissolved lyophilized protein in sterile and low endotoxin water based on the recommended volume 26.04ul. 3)After adding sterile water, cover the lid and mix them by gently tapping the tube for 5-10 times. Note: Do not vortex or vigorously pipette sample.
Visual Inspection	Test: Lyophilized ; Specification: Dried white powder ; Result: Pass Test: Vial Label ; Specification: Label aligned and complete ; Result: Pass Test: Bottle Sealing (manual check) ; Specification: Sealed tight ; Result: Pass
Quantity	Test: Bradford method ; Specification: $\geq$ specified quantity ; Result: Pass
Other Properties	Test: pH ; Specification: 7.4 ± 0.5 ; Result: Pass
Preparation and Storage	Store at -20 degree C to -80 degree C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80 degree C (Avoid repeated freezing and thawing). Shipping: The product shipped at -4 degree C. Upon receipt, store it immediately at -20 degree C or lower for long term storage.

IMAGES



SDS-PAGE
Figure 1. Human NLRP3 Protein, DYKDDDDK Tag on SDS-PAGE under reducing condition.

ADDITIONAL INFORMATION

Related Product Information for NLRP3 recombinant protein	This gene encodes a pyrin-like protein containing a pyrin domain, a nucleotide-binding site (NBS) domain, and a leucine-rich repeat (LRR) motif. This protein interacts with the apoptosis-associated speck-like protein PYCARD/ASC, which contains a caspase recruitment domain, and is a member of the NALP3 inflammasome complex. This complex functions as an upstream activator of NF-kappaB signaling, and it plays a role in the regulation of inflammation, the immune response, and apoptosis. Mutations in this gene are associated with familial cold autoinflammatory syndrome (FCAS), Muckle-Wells syndrome (MWS), chronic infantile neurological cutaneous and articular (CINCA) syndrome, and neonatal-onset multisystem inflammatory disease (NOMID). Multiple alternatively spliced transcript variants encoding distinct isoforms have been identified for this gene. Alternative 5' UTR structures are suggested by available data; however, insufficient evidence is available to determine if all of the represented 5' UTR splice patterns are biologically valid. [provided by RefSeq, Oct 2008]
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NCBI AND UNIPROT INFORMATION

NCBI GI #	34878690
NCBI GeneID	114548
NCBI Accession #	NP_899632
NCBI GenBank Nucleotide #	NM_183395.2
UniProt Accession #	Q96P20; O75434; Q17RS2; Q59H68; Q5JQS8; Q5JQS9; Q6TG35; Q8TCW0; B2RC97; B7ZKS9; B7ZKT2; B7ZKT3
Molecular Weight	The protein has a predicted molecular mass of 121.8 kDa after removal of the signal peptide .
NCBI Official Full Name	NACHT, LRR and PYD domains-containing protein 3 isoform b
NCBI Official Synonym Full Names	NLR family, pyrin domain containing 3
NCBI Official Symbol	NLRP3
NCBI Official Synonym Symbols	Ali; AVP; FCU; MWS; FCAS; CIAS1; FCAS1; NALP3; C1orf7; CLR1.1; PYPAF1; AGTAVPRL
NCBI Protein Information	NACHT, LRR and PYD domains-containing protein 3; cryopyrin; caterpillar protein 1.1; PYRIN-containing APAF1-like protein 1; NACHT, LRR and PYD containing protein 3; cold autoinflammatory syndrome 1 protein; NACHT domain-, leucine-rich repeat-, and PYD-con
UniProt Protein Name	NACHT, LRR and PYD domains-containing protein 3
UniProt Gene Name	NLRP3
UniProt Synonym Gene Names	C1orf7; CIAS1; NALP3; PYPAF1; CLR1.1
UniProt Entry Name	NALP3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/nlrp3-recombinant-protein-hek293/47508>