

Recombinant Human NLRP3 Protein, His/FLAG-tagged

Cat. No. NLRP3-01H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human NLR Family Pyrin Domain Containing 3 (NLRP3), also known as NALP3, Cold Autoinflammatory Syndrome 1 Protein (CIAS1), cryopyrin and PYPAF1 (Genbank Accession No. NM_004895), a.a. 2-1036(end) with N-terminal His-FLAG-tag, expressed in a baculovirus infected Sf9 cell expression system. MW = 120 kDa (calculated).
Species	Human
Source	Insect Cells
ProteinLength	2-1036(end)
Description	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 NLRP3 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. The SARS-CoV 3a protein, a transmembrane pore-forming viroporin, has been shown to activate the NLRP3 inflammasome via the formation of ion channels in macrophages. Mutations in this gene are associated with familial cold autoinflammatory syndrome (FCAS), Muckle-Wells syndrome (MWS), chronic infantile neurological cutaneous and articular (CINCA) syndrome, neonatal-onset multisystem inflammatory disease (NOMID), keratoendotheliitis fugax hereditarian, and deafness,

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autosomal dominant 34, with or without inflammation. 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.

Form	Aqueous buffer solution
Molecular Mass	120 kDa (calculated)
Purity	≥55%
Applications	Useful for protein binding studies, screening inhibitors of protein-protein interactions, and studying protein function.
Stability	At least 6 months at –80 centigrade . Avoid freeze/thaw cycles. Protein may be diluted to ≥ 100 µg/ml in PBS + glycerol and stored at - 80 centigrade .
Storage	>6 months at –80 centigrade
Concentration	0.12 mg/mL
Storage Buffer	40 mM Tris-HCl, pH 8.0, 110 mM NaCl, 2.2 mM KCl, 0.04% Tween-20, and 20% glycerol
Shipping	At -80 centigrade (dry ice)

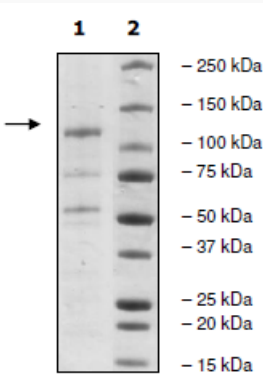
GENE INFORMATION

Gene Name NLRP3 NLR family pyrin domain containing 3 [Homo sapiens (human)]

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Official Symbol	NLRP3
Synonyms	NLRP3; NLR family pyrin domain containing 3; All; AVP; FCU; MWS; FCAS; KEFH; CIAS1; FCAS1; NALP3; C1orf7; CLR1.1; DFNA34; PYPAF1; AGTAVPRL; NACHT, LRR and PYD domains-containing protein 3; NACHT domain-, leucine-rich repeat-, and PYD-containing protein 3; NACHT, LRR and PYD containing protein 3; PYRIN-containing APAF1-like protein 1; caterpillar protein 1.1; cold autoinflammatory syndrome 1 protein; cold-induced autoinflammatory syndrome 1 protein; cryopyrin; cryopyrin, NACHT, LRR and PYD domains - containing protein 3; deafness, autosomal dominant 34; nucleotide-binding oligomerization domain, leucine rich repeat and pyrin domain containing 3
Gene ID	114548
mRNA Refseq	NM_004895
Protein Refseq	NP_004886
MIM	606416
UniProt ID	Q96P20
WB	4-20% SDS-PAGE Coomassie staining Lane 1: 1 µg NALP3 Lane 2: Protein Marker MW: 120 kDa Purity: ≥50% 

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