

Recombinant Full Length Human NLRP3 Protein, C-Flag-tagged

Cat. No. NLRP3-569HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human NLRP3 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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 hereditaria, and deafness, 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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

	biologically valid.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	118 kDa
AA Sequence	MKMASTRCKLARYLEDLEDVDLKKFKMHLEDYPPQKGCIPRPGQTEKADHVDLAT LMIDFNGEKAWAM AVWIFAAINRRDLYEKAKRDEPKWGSDNARVSNPTVICQEDS IEEWEWMGLLEYLSRISICKMKKDYRKKY RKYVRSRFQCIEDRNARLGESVSLNKRYT RLRLIKEHRSQQEREQELLAIGKTKTCESPVSPIKMELLFD PDDEHSEPVHTVVFQG AAGIGKILARKMMLDWASGTLYQDRFDYLFYIHCREVSLVTQSRSLGDLIMSCC PDP NPPIHKIVRKPSRILFLMDGFDELQGAFDEHIGPLCTDWQKAERGDILLSSLIRKKLLP EASLLITT RPVALEKLQHLLDHPRHVEILGFSEAKRKEYFFKYFSDEAQAARAFSLIQ ENEVLFTMCFIPLVCWIVCT GLKQQMESGKSLAQTSKTTTAVYVFFLSSLLQPRGGS QEHGLCAHLWGLCSLAADGIWNQKILFEESDLR NHGLQKADVSAFLRMNLFQKEV DCEKFYSFIHMTFQEFFAAMYYLLEEEKEGRTNVP GSRLKLPSRDVTV LLENYGKFE KGYLIFVVRFLFGLVNQERTSYLEKKLSCKISQQIRLELLKWIEVKAKAKKLQIQPSQL EL FYCLYEMQEEDFVQRAMDYFPKIEINLSTRMDHMVSSFCIENCHRVESLSLGLFH NMPKEEEEEKEGRH LDMVQCVPSSSHAACSHGLVNSHLTSSFCRGLFSVLSTS QSLTELDLSDNSLGDPMRVLCE TLQHPGC NIRRLWLGRCLSGHECCFDISLVLSS NQKLVELDLSDNALGDFGIRLLCVGLKHLLCNLKKLWLVSCCLT SACCQDLASVLST SHSLTRLVYGENALGDSGVAILCEKAKNPQC NLQKLGLVNSGLTSVCCSALSSVLST NQNLTHLYLRGNTLGDKGIKLLCEG LLHPDCKLQVLELDNCNLTS HCCWDLSTLLTS SQSLRKLSLGNN D LGDLGVMMFCEVLKQQSC LLQNLGLSEMYFNYETKSALET LQEEKPELTVVFEP SW TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and

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	handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	NOD-like receptor signaling pathway
Full Length	Full L.

GENE INFORMATION

Gene Name	NLRP3 NLR family pyrin domain containing 3 [Homo sapiens (human)]
Official Symbol	NLRP3
Synonyms	AI1; AVP; FCU; MWS; FCAS; KEFH; CIAS1; FCAS1; NALP3; C1orf7; CLR1.1; DFNA34; PYPAF1; AGTAVPRL
Gene ID	114548
mRNA Refseq	NM_004895.5
Protein Refseq	NP_004886.3
MIM	606416

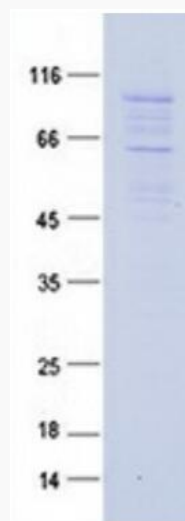
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UniProt ID

Q96P20



Coomassie blue staining of purified NLRP3 protein.

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