

# Recombinant Full Length Human NLRP13 Protein, GST-tagged

**Cat. No.** NLRP13-6753HF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Human NLRP13 full-length ORF ( AAI48743.1, 1 a.a. - 1043 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Source</b>           | In Vitro Cell Free System                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>ProteinLength</b>    | 1043 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Description</b>      | <p>NALPs are cytoplasmic proteins that form a subfamily within the larger CATERPILLER protein family. Most short NALPs, such as NALP13, have an N-terminal pyrin (MEFV; MIM 608107) domain (PYD), followed by a NACHT domain, a NACHT-associated domain (NAD), and a C-terminal leucine-rich repeat (LRR) region. The long NALP, NALP1 (MIM 606636), also has a C-terminal extension containing a function to find domain (FIIND) and a caspase recruitment domain (CARD). NALPs are implicated in the activation of proinflammatory caspases (e.g., CASP1; MIM 147678) via their involvement in multiprotein complexes called inflammasomes (Tschopp et al., 2003 [PubMed 12563287]).[supplied by OMIM</p> |
| <b>Molecular Mass</b>   | 141.68 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>AA Sequence</b>      | <p>MNFSVITCPNGGTNQGLLPYLMALDQYQLEEFKLCLEPQQQLMDFWSAPQGHFPRIP<br/> WANLRAADPLNLSFLLDEHFPKGQAWKVVLGIFQTMNLTSLCEKVRAEMKENVQTQ<br/> ELQDPTQEDLEMLEAAAGNMQTQGCQDPNQEELDELEEETGNVQAQGCQDPNQE<br/> EPEMLEEADHRRKYRENMKAEELLETWDNISWPKDHSVYIRNTSKDEHEELQRLLDPN</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

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RTRAQAQTIVLVGRAGVGKTTLAMQAMLHWANGVLFQQRFSYVFYLSCHKIRYMKE  
 TTFAELISLDWPDFDAPIEEFMSQPEKLLFIIDGFEEIIISESRSESLDDGSPCTDWYQE  
 LPVTKILHSLKKELVPLATLLITIKTWVFRDLKASLVNPCFVQITGFTGDDL RVYFMRH  
 FDDSSEVEKILQQLRKNETLFHSCSAPMVCWTVCSCLKQPKVRYDYDLQSITQTTTSL  
 YAYFFSNLFSTA EVDLADDSWPGQWRALCSLAIEGLWSMNFTFNKEDTEIEGLEVPF  
 IDSLYEFNILQKINDCGGCTTFTHL SFQEFFAAMSFVLEEPREFPPHSTKPKQEMKMLL  
 QHVLLDKEAYWTPVVLFFFGLLNKNIARELEDTLHCKISPRVMEELLKWGEELGKAE  
 SASLQFHILRLFHCLHESQEEDFTKKMLGRIFEVDLNI LEDEELQASSFCLKHCKRLN  
 KLRLSVSSHILERDLEILETSKFDSRMHAWNSICSTLV TNENLHELDLSNSKLHASSV  
 KGLCLALKNPRCKVQKLTCKSVTPEWVLQDLIALQGN SKLTHLNFSSNKLGMTVPLI  
 LKALRHSACNLKYLCLEKCNLSAASCQDLALFLT SIQHVTRLCLGFNRLQDDGIKLLC  
 AALTHPKCALERLELWFCQLAAPACKHLSDALLQNRSLTHLNL SKNSLRDEGVKFLC  
 EALGRPDGNLQSLNLSGCSFTREGCGELANALSHNHNVKILD LGENDLQDDGVKLL  
 CEALKPHRALHTLGLAKCNLT TACCQHLFSVLSSSKSLVNLNLLGNELDTDGVKMLC  
 KALKKSTCRLQKLG

**Applications**

Enzyme-linked Immunoabsorbent Assay  
 Western Blot (Recombinant protein)  
 Antibody Production  
 Protein Array

**Notes**

Best use within three months from the date of receipt of this protein.

**Storage**

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

**Storage Buffer**

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

**Gene Name**

NLRP13 NLR family, pyrin domain containing 13 [ Homo sapiens ]

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|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Official Symbol</b> | <a href="#">NLRP13</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Synonyms</b>        | NLRP13; NLR family, pyrin domain containing 13; NACHT, leucine rich repeat and PYD containing 13 , NALP13; NACHT, LRR and PYD domains-containing protein 13; CLR19.7; NOD14; nucleotide binding oligomerization domain; leucine rich repeat and pyrin domain containing 13; PAN13; NACHT, LRR and PYD containing protein 13; NACHT, leucine rich repeat and PYD containing 13; nucleotide-binding oligomerization domain protein 14; nucleotide-binding oligomerization domain, leucine rich repeat and pyrin domain containing 13; NALP13; |
| <b>Gene ID</b>         | <a href="#">126204</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>mRNA Refseq</b>     | <a href="#">NM_176810</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Protein Refseq</b>  | <a href="#">NP_789780</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>MIM</b>             | <a href="#">609660</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>UniProt ID</b>      | <a href="#">Q86W25</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

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