NLR Family CARD Domain-Containing Protein 4 (NLRC4) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	NLR family CARD domain-containing protein 4 (NLRC4), Recombinant Protein
Full Product Name	Recombinant Human NLR family CARD domain-containing protein 4 (NLRC4) , partial
Product Gene Name	NLRC4 recombinant protein
Product Synonym Gene Name	NLRC4
Sequence	TDSLGNLKNL TKLIMDNIKM NEEDAIKLAE GLKNLKKMCL FHLTHLSDIG EGMDYIVKSL SSEPCDLEEI QLVSCCLSAN AVKILAQNLH NLVKLSILDL SENYLEKDGN EALHELIDRM NVLEQLTALM LPWG
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	10,646 Da
Sequence Positions	756-889aa; partial
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
OMIM	606831
3D Structure	ModBase 3D Structure for Q9NPP4
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for NLRC4 recombinant protein	MBS1376374 is a recombinant protein targeting NLRC4. Also known as Recombinant Human NLR family CARD domain-containing protein 4 (NLRC4) , partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of NLRC4 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NLRC4. It may not necessarily be applicable to this product.

NCBI GI #	312433960
NCBI GeneID	58484
NCBI Accession #	NP_001186067.1
UniProt Primary Accession #	Q9NPP4
UniProt Secondary Accession #	Q96J81; Q96J82; Q96J83; A8K9F8; B2RBQ3; B3KTF0; D6W580

UniProt Related Accession #	Q9NPP4
GenBank Nucleotide #	NM_001199138.1
NCBI Official Full Name	NLR family CARD domain-containing protein 4 isoform a
NCBI Official Synonym Full Names	NLR family CARD domain containing 4
NCBI Official Symbol	NLRC4
NCBI Official Synonym Symbols	CLAN; IPAF; AIFEC; CLAN1; CLANA; CLANB; CLANC; CLAND; FCAS4; CARD12; CLR2.1
UniProt Protein Name	NLR family CARD domain-containing protein 4
UniProt Synonym Protein Names	CARD, LRR, and NACHT-containing protein; Clan protein; Caspase recruitment domain-containing protein 12; Ice protease-activating factor; Ipaf
Protein Family	NLR family CARD domain-containing protein
UniProt Gene Name	NLRC4
UniProt Synonym Gene Names	CARD12; CLAN; CLAN1; IPAF; Clan protein; Ipaf
NCBI Protein Information	NLR family CARD domain-containing protein 4
NCBI Summary for NLRC4	This gene encodes a member of the caspase recruitment domain-containing NLR family. Family members play essential roles in innate immune response to a wide range of pathogenic organisms, tissue damage and other cellular stresses. Mutations in this gene result in autoinflammation with infantile enterocolitis. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2014]
UniProt Comments for NLRC4	Key component of inflammasomes that indirectly senses specific proteins from pathogenic bacteria and fungi and responds by assembling an inflammasome complex that promotes caspase-1 activation, cytokine production and macrophage pyroptosis.
Research Articles on NLRC4	**1.** mRNA expression levels of NLRP1 and NLRC4 were not altered in chronic hepatitis B patients, suggesting that these genes are not responsible for the impaired immune responses against HBV observed in these patients.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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