Caspase-1 (CASP1) Dog Recombinant Protein

PRODUCT OVERVIEW

Product Name	Caspase-1 (CASP1), Recombinant Protein
Full Product Name	Recombinant Dog Caspase-1 (CASP1)
Product Gene Name	CASP1 recombinant protein
Product Synonym Gene Name	CASP1
Sequence	GPTIPDSEES TDTLKLCPPE TFVKMYKEKA EEIYPIKERK DRTRLALIIC NIEFDHLSTR DGAELDIAGM ESLLEGLGYS VVVKRKLTAK GMESVLREFA ARPEHKSSDS TFLVLMSHGI LNGICGTAHS VENPDVLAYD TIFQIFNNRH CLNLKDKPKV IIIQACRGEN PGELWVSD
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	45,662 Da
Sequence Positions	120-297, Full length protein
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.
3D Structure	ModBase 3D Structure for Q9MZV7
Species	Canis familiaris (Dog) (Canis lupus familiaris)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for CASP1 recombinant protein	This gene encodes a protein which is a member of the cysteine-aspartic acid protease (caspase) family. Sequential activation of caspases plays a central role in the execution-phase of cell apoptosis. Caspases exist as inactive proenzymes which undergo proteolytic processing at conserved aspartic residues to produce 2 subunits, large and small, that dimerize to form the active enzyme. This gene was identified by its ability to proteolytically cleave and activate the inactive precursor of interleukin-1, a cytokine involved in the processes such as inflammation, septic shock, and wound healing. This gene has been shown to induce cell apoptosis and may function in various developmental stages. Studies of a similar gene in mouse suggest a role in the pathogenesis of Huntington disease. Alternative splicing of this gene results in five transcript variants encoding distinct isoforms.
Other Notes	Small volumes of CASP1 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.
Searchable Terms for CASP1 purchase	MBS1309435 is a recombinant protein targeting CASP1. Also known as Recombinant Dog Caspase-1 (CASP1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CASP1. It may not necessarily be applicable to this product.

NCBI GI #	50978840

NCBI GeneID	403724
NCBI Accession #	NP_001003125.1
UniProt Primary Accession #	Q9MZV7
UniProt Related Accession #	Q9MZV7
GenBank Nucleotide #	NM_001003125.1
NCBI Official Full Name	caspase-1
NCBI Official Symbol	CASP4
NCBI Official Synonym Symbols	CASP1
UniProt Protein Name	Caspase-1
UniProt Synonym Protein Names	Interleukin-1 beta convertase; IL-1BC
UniProt Gene Name	CASP1
UniProt Synonym Gene Names	IL1BC; CASP-1; IL-1BC; ICE; IL-1 beta-converting enzyme
NCBI Protein Information	caspase-1
UniProt Comments for CASP1	Thiol protease that cleaves IL-1 beta between an Asp and an Ala, releasing the mature cytokine which is involved in a variety of inflammatory processes. Important for defense against pathogens. Cleaves and activates sterol regulatory element binding proteins (SREBPs). Can also promote apoptosis. Upon inflammasome activation, during DNA virus infection but not RNA virus challenge, controls antiviral immunity through the cleavage of CGAS, rendering it inactive.
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