

Active Recombinant Mouse Casp1 Protein

Cat. No. Casp1-0413M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Mouse Casp1 (P29452) recombinant protein expressed in Escherichia coli. This protein composed of large (20 KDa) and small (10 KDa) subunits.
Species	Mouse
Source	E.coli
Description	Caspase-1/Interleukin-1 converting enzyme (ICE) is an evolutionarily conserved enzyme that proteolytically cleaves other proteins, such as the precursors of the inflammatory cytokines interleukin 1 β and interleukin 18 as well as the pyroptosis inducer Gasdermin D, into active mature peptides. It plays a central role in cell immunity as an inflammatory response initiator. Once activated through formation of an inflammasome complex, it initiates a proinflammatory response through the cleavage and thus activation of the two inflammatory cytokines, interleukin 1 β (IL-1 β) and interleukin 18 (IL-18) as well as pyroptosis, a programmed lytic cell death pathway, through cleavage of Gasdermin D. The two inflammatory cytokines activated by Caspase-1 are excreted from the cell to further induce the inflammatory response in neighboring cells.
Form	Lyophilized
Bio-activity	20000 units/mg
Molecular Mass	30 kDa

 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

Applications	Functional Study SDS-PAGE
Storage	Store at -80 centigrade on dry atmosphere. After reconstitution with PBS containing 15% glycerol 1 uL per unit, store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	No additive
GENE INFORMATION	
Gene Name	Casp1 caspase 1 [Mus musculus]
Official Symbol	Casp1
Synonyms	CASP1; caspase 1; caspase-1; p45; CASP-1; IL-1BC; IL-1B converting enzyme; IL-1 beta-converting enzyme; interleukin-1 beta convertase; interleukin 1 beta-converting enzyme; interleukin-1 beta-converting enzyme; ICE; Il1bc;
Gene ID	12362
mRNA Refseq	NM_009807
Protein Refseq	NP_033937

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