

Recombinant Human Caspase 1, Apoptosis-Related Cysteine Peptidase (interleukin 1, beta, convertase), His-tagged

Cat. No. CASP1-1639H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant active human CASP1 containing N-term His-tag was expressed in E. coli.
Species	Human
Source	E.coli
Description	CASP1 (also know as ICE) is a prototypical member of the caspase-family of cysteine proteases. CASP1 exists in cells as an inactive 45 kDa proenzyme. The pro-enzyme is matured by proteolysis to yield large (20 kD) and small (10 kD) subunits. The active CASP1 is a heterotetramer consisting of two large and two small subunits. To date the regulatory mechanism of CASP1 activation and the role of CASP1 in apoptosis are poorly understood.
Biological Activity	> 5000 units/mg
Molecular Weight	large (20 kD) and small (10 kD) subunitsk
Form	Lyophilized powder.
Appearance	Lyophilized powder
Reconstitution	Reconstitute to 1 unit per μ in PBS containing 15% glycerol.

 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

Storage The lyophilized CASP1 is stable for 1 year at -70°C. Following reconstitution in PBS, the enzyme should be aliquoted and immediately stored at -70°C. Avoid multiple freeze/thaw cycles as activity might decrease.

Pathways Amyotrophic lateral sclerosis (ALS); Androgen Receptor Signaling Pathway; Apoptosis; Caspase cascade in apoptosis; Cellular roles of Anthrax toxin; Cytokine Signaling in Immune system; Cytosolic DNA-sensing pathway; Direct p53 effectors; IFN-gamma pathway; IL1-mediated signaling events; Immune System; Inflammasomes; Influenza A; Innate Immunity Signaling; Interleukin-1 processing

GENE INFORMATION

Gene Name CASP1 caspase 1, apoptosis-related cysteine peptidase (interleukin 1, beta, convertase) [Homo sapiens]

Official Symbol CASP1

Synonyms CASP1; caspase 1, apoptosis-related cysteine peptidase (interleukin 1, beta, convertase); ICE; P45; IL1BC; caspase-1; IL-1BC; IL1B-convertase; CASP1 nirs variant 1; IL-1 beta-converting enzyme; interleukin 1-B converting enzyme; Caspase-1; CASP-1; Interleukin-1 beta convertase; Interleukin-1 beta-converting enzyme; EC 3.4.22.36; OTTHUMP00000045728; OTTHUMP00000232029; OTTHUMP00000232030; OTTHUMP00000232031; OTTHUMP00000232032; OTTHUMP00000232033; OTTHUMP00000232034; OTTHUMP00000232036

Gene ID 834

mRNA Refseq NM_033292

Protein Refseq NP_150634

 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

MIM	147678
UniProt ID	P29466
Chromosome Location	11q23
Function	cysteine-type endopeptidase activity; caspase activator activity; peptidase activity; protein binding
Protein CASP1 PDB 1bmq.	