

Recombinant Full Length Human CASP1 Protein, GST-tagged

Cat. No. CASP1-2921HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CASP1 full-length ORF (NP_150635.1, 1 a.a. - 311 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	311 amino acids
Description	<p>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 results in transcript variants encoding distinct isoforms. [provided by RefSeq, Mar 2012]</p>
Molecular Mass	61.4 kDa
AA Sequence	MADKVLKEKRKLFIRSMGEAPQAVQDNPAMPTSSGSEGNVKLCSLEEAQRIWKQKS AEIYPIMDKSSRTRLALIIICNEEFDSIPRRTGAEVDITGMTMLLQNLGYSDVVKKNLTA

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SDMTTELEAFAHRPEHKTSDSTFLVFMESHGIREGICGKKHSEQVPDILQLNAIFNMLN
 TKNCPSLKDKPKVIIIQACRGDSPGVVWFKDSVGVSGNLSLPTTEEFEDDAIKKAHIE
 KDFIAFCSSTPDNVSWRHPTMGSVFIGRLIEHMQEYACSCDVVEIFRKVRFSFEQPD
 GRAQMPTTERVTLTRCFYLFPGH

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

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 [CASP1 caspase 1, apoptosis-related cysteine peptidase \[Homo sapiens \]](#)

Official Symbol [CASP1](#)

Synonyms CASP1; caspase 1, apoptosis-related cysteine peptidase; caspase 1, apoptosis related cysteine peptidase (interleukin 1, beta, convertase), caspase 1, apoptosis related cysteine protease (interleukin 1, beta, convertase), IL1BC; caspase-1; caspase 1; ICE; interleukin 1; beta; convertase; IL1B-convertase; CASP1 nirs variant 1; IL-1 beta-converting enzyme; interleukin 1, beta, convertase; interleukin 1-B converting enzyme; caspase 1, apoptosis-related cysteine peptidase (interleukin 1, beta, convertase); P45; IL1BC;

Gene ID [834](#)

mRNA Refseq [NM_001223](#)

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Protein Refseq NP_001214

MIM 147678

UniProt ID P29466

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