

Recombinant Human CASP1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. CASP1-3737H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CASP1 MS Standard C13 and N15-labeled recombinant protein (NP_150636) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	29.6 kDa
AA Sequence	MADKVLKEKRKLFIRSMGEAPQAVQDNPAAMPTSSGSEGNVKLCSLEEAQRIWKQKS AEIYPIMDKSSRTRLALIICNEEFDSIPRRTGAEVDITGMTMLLQNLGYSDVKKNLTA

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SDMTTELEAFAHRPEHKTS DSTFLVFM SHGIREGICGKKHSEQVPDILQLNAIFNMLN
TKNCPSLKDKPKV IIIQACRGDNVSWRHPTMGSVFIGRLIEHMQEYACSCDVEEIFRK
VRFSFEQPDGRAQMPTTERTVLT RCFYLFPGHTRTRPLEQKLISEEDLAANDILDYK
DDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name CASP1 caspase 1 [Homo sapiens (human)]

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

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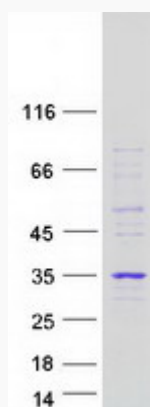
mRNA Refseq [NM_033294](#)

Protein Refseq [NP_150636](#)

MIM [147678](#)

UniProt ID [P29466](#)

SDS-PAGE



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