Recombinant Full Length Human CASP1 Protein, N-His-tagged

Cat. No. CASP1-1588HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human CASP1 Protein, fused to His-tag at N-terminus, was expressed in E. coli.
Species	Human
Source	E.coli
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.
Form	50mM Tris, 8M Urea, pH8.0.
Molecular Mass	45 kDa
AA Sequence	A DNA sequence encoding human full-length CASP1.

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Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Protease
Protein Pathways	Amyotrophic lateral sclerosis (ALS), Cytosolic DNA-sensing pathway, NOD-like receptor signaling pathway
Full Length	Full L.

GENE INFORMATION

Gene Name	CASP1 caspase 1 [Homo sapiens (human)]
Official Symbol	CASP1
Synonyms	ICE; P45; IL1BC
Gene ID	834
mRNA Refseq	NM_033292.4

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Protein Refseq	NP_150634.1
MIM	147678
UniProt ID	P29466

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