Recombinant Human CASP4

Cat. No. CASP4-26607TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length protein (Human)
Species	Human
Source	E.coli
Description	This gene encodes a protein that 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 composed of a prodomain and a large and small protease subunit. Activation of caspases requires proteolytic processing at conserved internal aspartic residues to generate a heterodimeric enzyme consisting of the large and small subunits. This caspase is able to cleave and activate its own precursor protein, as well as caspase 1 precursor. When overexpressed, this gene induces cell apoptosis. Alternative splicing results in transcript variants encoding distinct isoforms.
Tissue specificity	Widely expressed, with highest levels in spleen and lung. Moderate expression in heart and liver, low expression in skeletal muscle, kidney and testis. Not found in the brain.
Biological activity	5000 units/mg.
Form	Lyophilised:Reconstitute to 1 unit per µl in PBS containing 15% glycerol. Aliquot and store immediately at -80°C.

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Purity	>95% by SDS-PAGE
Storage buffer	Preservative: NoneConstituents: 15% Glycerol, PBS
Storage	Aliquot and store at -80°C. Avoid repeated freeze / thaw cycles.
Sequence Similarities	Belongs to the peptidase C14A family.Contains 1 CARD domain.
Full Length	Full L.

GENE INFORMATION

Gene Name	CASP4 caspase 4, apoptosis-related cysteine peptidase [Homo sapiens]
Official Symbol	CASP4
Synonyms	CASP4; caspase 4, apoptosis-related cysteine peptidase; caspase 4, apoptosis related cysteine protease; caspase-4; ICE(rel)II; ICH 2; TX;
Gene ID	837
mRNA Refseq	NM_001225
Protein Refseq	NP_001216
MIM	602664
Uniprot ID	P49662
Chromosome Location	11q22.2-q22.3

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Pathway	Apoptosis, organism-specific biosystem; Caspase cascade in apoptosis, organism-specific biosystem; Immune System, organism-specific biosystem; Innate Immune System, organism-specific biosystem; NOD1/2 Signaling Pathway, organism-specific biosystem;
Function	cysteine-type endopeptidase activity; peptidase activity;

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