

## Recombinant Human CASP4

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant full length protein (Human)
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	<p>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.</p>
<b>Tissue specificity</b>	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.
<b>Biological activity</b>	5000 units/mg.
<b>Form</b>	Lyophilised: Reconstitute to 1 unit per $\mu$ l in PBS containing 15% glycerol. Aliquot and store immediately at -80°C.

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<b>Purity</b>	>95% by SDS-PAGE
<b>Storage buffer</b>	Preservative: None Constituents: 15% Glycerol, PBS
<b>Storage</b>	Aliquot and store at -80°C. Avoid repeated freeze / thaw cycles.
<b>Sequence Similarities</b>	Belongs to the peptidase C14A family. Contains 1 CARD domain.
<b>Full Length</b>	Full L.

## GENE INFORMATION

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