

Recombinant Human Caspase 4, Apoptosis-related Cysteine Peptidase

Cat. No. CASP4-599H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CASP4 was produced in E. coli.
Species	Human
Source	E. coli
Description	Caspase-4 is a member of the caspase family of cysteine proteases. It exists in cells as an inactive pro-enzyme. The pro-enzyme is matured by proteolysis to yield large and small subunits. The active enzyme is a heterotetramer consisting of two large and two small subunits. The expressed caspase-4 spontaneously undergoes auto-processing to yield subunits characteristic of the native enzyme. The active caspase-4 is routinely tested for its ability to enzymatically cleave the substrate WEHD-AFC or WEHD-pNA.
Purity	≥95% (SDS-PAGE).
Formulation	Lyophilized.
Reconstitution	Reconstitute with PBS containing 15% glycerol to 1U/μ
Specific Activity	~5"000U/mg protein. One unit is defined as the amount of enzyme that cleaves 1nmol of the caspase substrate WEHD-pNA per hour at 37°C in reaction solution containing 50mM HEPES, pH 7.2, 50mM NaCl, 0.1% CHAPS, 10mM EDTA, 5% glycerol and 10mM DTT.

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Application Useful in screening caspase inhibitors, studying enzyme regulation and kinetics, determining target substrate or as a positive control in caspase activity assays. We recommend using 1 unit per assay for analyzing caspase activity.

Storage Avoid freeze/thaw cycles. After reconstitution, prepare aliquots and store at -80°C.

GENE INFORMATION

Gene Name [CASP4 caspase 4, apoptosis-related cysteine peptidase \[Homo sapiens \]](#)

Synonyms CASP4; caspase 4, apoptosis-related cysteine peptidase; TX; ICH-2; Mih1/TX; ICEREL-II; ICE(rel)II; caspase-4; CASP-4; ICE(rel)-II; protease TX; protease ICH-2; apoptotic cysteine protease Mih1/TX; caspase 4, apoptosis-related cysteine protease; EC 3.4.22.57; TX protease; Caspase-4 subunit 1; Caspase-4 subunit 2; ICH2

Gene ID [837](#)

mRNA Refseq [NM_001225](#)

Protein Refseq [NP_001216](#)

MIM [602664](#)

UniProt ID [P49662](#)

Chromosome Location 11q22.2-q22.3

Function cysteine-type endopeptidase activity; peptidase activity; protein binding

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