

Active Recombinant Human CASP8 Protein

Cat. No. CASP8-26606TH **Lot. No.** (See product label)

SPECIFICATION

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|-------------------------|---|
| Product Overview | Recombinant human CASP8 protein without tag was expressed in E. coli. |
| Species | Human |
| Source | E.coli |
| Description | <p>Caspase-8 (also know as FLICE, MASH, Mch5) is a member of the caspase-family of cysteine proteases. Similar to other caspases, caspase-8 also exists in cells as an inactive proenzyme. During apoptosis procaspase-8 is processed at aspartate residues by self-proteolysis and/or cleavage by another caspase. The processed active form of caspase-8 consists of large and small subunits which associate to form the active enzyme. Active caspase-8 has been shown to activate caspase-3 leading to degradation of a variety of cellular target proteins during apoptosis. The recombinant active human caspase-8 was expressed in E. coli. The active caspase-8 is routinely tested for its ability to enzymatically cleave these two substrates Ac-IETD-pNA or Ac-IETD-AFC.</p> |
| Form | Lyophilized powder |
| Bio-activity | <p>Protein activity determined to be > 5000 units/mg. One unit of the recombinant caspase-8 is the enzyme activity that cleaves 1 nmol of the caspase substrate IETD-pNA (pNA: pnitroanaline) per hour at 37 centigrade in a reaction solution containing 50 mM Hepes, pH 7.2, 50 mM NaCl, 0.1% Chaps, 10 mM EDTA, 5% Glycerol, and 10 mM DTT.</p> |

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| Purity | Purity was assessed by SDS-PAGE (≥95%) and by HPLC. |
| Applications | Apuri, Blocking, ELISA, Functional Assay |
| Notes | For In vitro laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption. |
| Storage | Store at -80 centigrade. |
| Storage Buffer | Reconstitute to 1 unit per μin PBS containing 15% glycerol. |
| GENE INFORMATION | |
| Gene Name | CASP8 caspase 8 [Homo sapiens (human)] |
| Official Symbol | CASP8 |
| Synonyms | CAP4; MACH; MCH5; FLICE; ALPS2B; Casp-8; CASP8; caspase 8; caspase-8; FADD-homologous ICE/CED-3-like protease; FADD-like ICE; ICE-like apoptotic protease 5; MACH-alpha-1/2/3 protein; MACH-beta-1/2/3/4 protein; MORT1-associated ced-3 homolog; apoptotic cysteine protease; apoptotic protease Mch-5; caspase 8, apoptosis-related cysteine peptidase; caspase 8, apoptosis-related cysteine protease; EC 3.4.22.61 |
| Gene ID | 841 |
| mRNA Refseq | NM_001228 |
| Protein Refseq | NP_001219 |
| MIM | 601763 |

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UniProt ID

Q14790

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