

Active Recombinant Human CASP8 Protein

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

SPECIFICATION

Product Overview	Recombinant human CASP8 protein without tag was expressed in E. coli.
Species	Human
Source	E.coli
Description	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.
Form	Lyophilized powder
Bio-activity	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.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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 µl in 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

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