

Recombinant Human Caspase 7, Apoptosis-related Cysteine Peptidase

Cat. No. CASP7-602H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human CASP7 expressed in <i>E.coli</i> spontaneously undergoes autoprocessing to yield the subunits characteristic of the active enzyme. The rate of caspase-7 enzymatic hydrolysis can be measured by the release of AMC from the caspase substrate Ac-DEVD-AMC as emission at 440nm and excitation at 380nm using a spectrofluorometer.
Species	Human
Source	E.coli
Description	Caspase-7 is a member of the caspase (cysteine aspartate protease) family of proteins, and has been shown to be an executioner protein of apoptosis. Sequential activation of caspases plays a central role in the execution-phase of cell apoptosis. Caspases exist as inactive proenzymes which undergo proteolytic processing by upstream caspases (caspase-8, -9) at conserved aspartic residues to produce two subunits, large and small, that dimerize to form the active enzyme in the form of a heterotetramer. The precursor of this caspase is cleaved by caspase 3, caspase 10, and caspase 9. It is activated upon cell death stimuli and induces apoptosis. Alternative splicing results in four transcript variants, encoding three distinct isoforms.
Formulation	Liquid. 5g in 25μl of 50mM TRIS (pH 8.0) containing 100mM sodium chloride and 50mM imidazole.

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Storage

Stable at least one week when stored at +4°C. Avoid freeze/thaw cycles. After reconstitution, prepare aliquots and store at -80°C.

GENE INFORMATION
Gene Name

CASP7 caspase 7, apoptosis-related cysteine peptidase [Homo sapiens]

Synonyms

CASP7; caspase 7, apoptosis-related cysteine peptidase; MCH3; CMH-1; ICE-LAP3; caspase-7; CASP-7; Lice2 alpha/beta/gamma; caspase 7 isoform delta; apoptotic protease MCH-3; ICE-like apoptotic protease 3; caspase 7, apoptosis-related cysteine protease; EC 3.4.22.60; Apoptotic protease Mch-3; OTTHUMP00000020511; OTTHUMP00000020514; caspase 7 isoform delta; Lice2 alpha/beta/gamma

Gene ID

840

mRNA Refseq

NM_001227

Protein Refseq

NP_001218

MIM

601761

UniProt ID

P55210

**Chromosome
Location**

10q25

Pathway

Alzheimer's disease; Apoptosis

Function

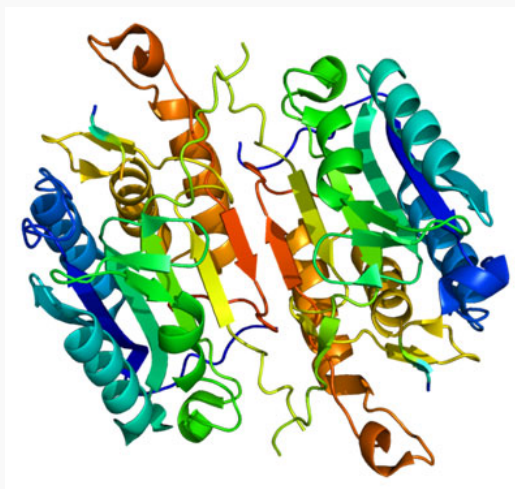
cysteine-type endopeptidase activity; cysteine-type peptidase activity; peptidase activity; protein binding

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