

# Recombinant Human Caspase 6, Apoptosis-related Cysteine Peptidase

**Cat. No.** CASP6-601H    **Lot. No.** (See product label)

## SPECIFICATION

**Product Overview**      Recombinant Human CASP6 expressed in *E.coli* spontaneously undergoes autoprocessing to yield the subunits characteristic of the active enzyme. The rate of caspase-6 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**      This gene encodes a protein which 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 which undergo proteolytic processing at conserved aspartic residues to produce two subunits, large and small, that dimerize to form the active enzyme. This protein is processed by caspases 7, 8 and 10, and is thought to function as a downstream enzyme in the caspase activation cascade. Alternative splicing of this gene results in two transcript variants that encode different isoforms.

**Formulation**      Liquid. 5g in 25µof 50mM TRIS (pH 8.0) containing 100mM sodium chloride and 50mM imidazole.

**Storage**      Stable for at least one week when stored at +4°C. Avoid freeze/thaw cycles. After

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reconstitution, prepare aliquots and store at -80°C.

## GENE INFORMATION

|                            |   |
|----------------------------|---|
| <b>Gene Name</b>           | CASP6 caspase 6, apoptosis-related cysteine peptidase [ Homo sapiens ]  |
| <b>Synonyms</b>            | CASP6; caspase 6, apoptosis-related cysteine peptidase; MCH2; caspase-6; CASP-6; apoptotic protease MCH-2; EC 3.4.22.59; caspase 6, apoptosis-related cysteine protease; Caspase-6 subunit p18; Caspase-6 subunit p11 |
| <b>Gene ID</b>             | 839   |
| <b>mRNA Refseq</b>         | NM_001226   |
| <b>Protein Refseq</b>      | NP_001217   |
| <b>MIM</b>                 | 601532  |
| <b>UniProt ID</b>          | P55212  |
| <b>Chromosome Location</b> | 4q25  |
| <b>Pathway</b>             | Apoptosis   |
| <b>Function</b>            | cysteine-type endopeptidase activity; cysteine-type peptidase activity; peptidase activity; protein binding   |

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