

## Recombinant Mouse Casp6 protein, His-tagged

**Cat. No.** Casp6-16M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Mouse Casp6(6-162) fused with His tag was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>ProteinLength</b>    | 6-162 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Description</b>      | 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. |
| <b>Form</b>             | Tris-based buffer, 50% glycerol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>AA Sequence</b>      | GFYKS REVFDPAEQY KMDHKRRGVA LIFNHERFFW HLTLPERRGT<br>NADRDNLTRR FSDLGFEVKC FNDLRAEELL LKIHEVSTSS HIDADCFICV<br>FLSHGEGNHV YAYDAKIEIQ TLTGLFKGDK CQSLVGKPKI FIIQACRGSQ<br>HDVPVPLDM VD                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Purity</b>           | >90%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

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|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Notes</b>               | Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.                                                                                                                                                                                                                                        |
| <b>Storage Buffer</b>      | Store at -20 centigrade, for extended storage, conserve at -20 centigrade or -80 centigrade.                                                                                                                                                                                                                                                        |
| <b>GENE INFORMATION</b>    |                                                                                                                                                                                                                                                                                                                                                     |
| <b>Gene Name</b>           | Casp6 caspase 6 [ Mus musculus ]                                                                                                                                                                                                                                                                                                                    |
| <b>Official Symbol</b>     | Casp6                                                                                                                                                                                                                                                                                                                                               |
| <b>Synonyms</b>            | CASP6; caspase 6; caspase-6; CASP-6; apoptotic protease Mch-2; Mch2; mCASP-6;                                                                                                                                                                                                                                                                       |
| <b>Gene ID</b>             | 12368                                                                                                                                                                                                                                                                                                                                               |
| <b>mRNA Refseq</b>         | NM_009811                                                                                                                                                                                                                                                                                                                                           |
| <b>Protein Refseq</b>      | NP_033941                                                                                                                                                                                                                                                                                                                                           |
| <b>MIM</b>                 |                                                                                                                                                                                                                                                                                                                                                     |
| <b>UniProt ID</b>          | O08738                                                                                                                                                                                                                                                                                                                                              |
| <b>Chromosome Location</b> | 3; 3 H1                                                                                                                                                                                                                                                                                                                                             |
| <b>Pathway</b>             | Apoptosis, organism-specific biosystem; Apoptosis, organism-specific biosystem; Apoptosis, conserved biosystem; Apoptosis, organism-specific biosystem; Apoptosis Modulation by HSP70, organism-specific biosystem; Apoptosis signaling pathway, organism-specific biosystem; Apoptotic cleavage of cellular proteins, organism-specific biosystem; |

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**Function**

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

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