

Active Recombinant Mouse Casp3 protein

Cat. No. Casp3-1643M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Casp3 protein was expressed in E. coli.
Species	Mouse
Source	E.coli
Bio-activity	300000 units/mg
Molecular Mass	Of large (17 kD) and small (11 kD) subunits
Unit Definition	One unit of the recombinant caspase-3 is the enzyme activity that cleaves 1 nmol of the caspase substrate DEVD-pNA (pNA: pnitroaniline) per hour at 37°C 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.
Applications	Active caspase-3 is useful in studying enzyme regulation, determining target substrates, screening caspase inhibitors, or as a positive control in caspase activity assays. We recommend using 1 unit/assay for analyzing caspase activity.
Notes	Centrifuge the vial prior to opening.
Storage	The lyophilized caspase-3 is stable for 1 year at –70 centigrade. Following reconstitution in PBS, the enzyme should be aliquoted and immediately stored at –70 centigrade. Avoid multiple freeze/thaw cycles as activity might decrease.

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Reconstitution Reconstitute to 1 unit per μ l in PBS containing 15% glycerol

GENE INFORMATION

Gene Name [Casp3 caspase 3 \[Mus musculus \]](#)

Official Symbol [Casp3](#)

Synonyms

CASP3; caspase 3; caspase-3; SCA-1; CASP-3; CPP-32; protein Yama; cysteine protease CPP32; SREBP cleavage activity 1; caspase 3, apoptosis related cysteine protease; CC3; AC-3; Lice; Yama; mldy; CPP32; Apopain; Caspase-3; A830040C14Rik;

Gene ID [12367](#)

mRNA Refseq [NM_009810](#)

Protein Refseq [NP_033940](#)

MIM

UniProt ID

Pathway

Activation of DNA fragmentation factor, organism-specific biosystem; Activation of caspases through apoptosome-mediated cleavage, organism-specific biosystem; Alpha6-Beta4 Integrin Signaling Pathway, organism-specific biosystem

Function

aspartic-type endopeptidase activity; cyclin-dependent protein kinase inhibitor activity; cysteine-type endopeptidase activity; cysteine-type peptidase activity; cysteine-type peptidase activity

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