

Recombinant Mouse Caspase 3

Cat. No. Casp3-1641M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Procaspase-3 (1083P-5) is produced by expression of a human cDNA in E. coli.
Species	Mouse
Source	E.coli
Description	CASP3 (also know as CPP32, Yama and apopain) is a member of the caspase family of cysteine proteases. CASP3 exists in cells as an inactive 32 kDa proenzyme. Proteolytic processing of this inactive proenzyme generates the 17 kD and 12 kD subunits which, when assembled as a tetramer (a pair of heterodimers), form the active caspase. Cascades of caspase activation have been shown to be key signal-transducing events in apoptosis.
Molecular Weight	32.0 kDa
Form	Lyophilized powder.
Appearance	Lyophilized powder
Reconstitution	Reconstitute to 0.1 g/μl in PBS containing 15% glycerol.
Purity	≥ 90 % by SDS-PAGE
Storage	Store at -70°C. After initial reconstitution, aliquot product into individual tubes and

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immediately refreeze at -70°C. AVOID FREEZE/THAW CYCLES.

Pathways

Activation of DNA fragmentation factor; Apoptosis; Amoebiasis; Alzheimer's disease; Alpha6-Beta4 Integrin Signaling Pathway; Androgen Receptor Signaling Pathway; Apoptosis Modulation by HSP70; Apoptosis induced DNA fragmentation; Apoptotic cleavage of cellular proteins; Caspase cascade in apoptosis; Cell death signalling via NRAGE; Colorectal cancer; Epithelial cell signaling in Helicobacter pylori infection; Herpes simplex infection; Huntington's disease

GENE INFORMATION

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

Official Symbol [Casp3](#)

Synonyms Casp3; caspase 3; CC3; AC-3; Lice; Yama; mldy; CPP32; Apopain; Caspase-3; A830040C14Rik; caspase-3; SCA-1; CASP-3; CPP-32; protein Yama; cysteine protease CPP32; SREBP cleavage activity 1; caspase 3, apoptosis related cysteine protease; Caspase-3; Cysteine protease CPP32; LICE; Protein Yama; EC 3.4.22.56

Gene ID [12367](#)

mRNA Refseq [NM_009810](#)

Protein Refseq [NP_033940](#)

UniProt ID [P70677](#)

Chromosome Location [8 B1.1; 8 26.0 cM](#)

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Function

aspartic-type endopeptidase activity; cyclin-dependent protein kinase inhibitor activity; cysteine-type endopeptidase activity; cysteine-type peptidase activity; hydrolase activity; peptidase activity; phospholipase A2 activator activity; protein binding

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