

Recombinant Mouse Caspase 9

Cat. No. Casp9-679M **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Mouse
Source	E.coli
Description	Caspase-9 is an initiator caspase encoded by the CASP9 gene. CASP9 orthologs have been identified in all mammals for which complete genome data are available. Unique orthologs are also present in lizards, lissamphibians, and teleosts. The aspartic acid specific protease caspase-9 has been linked to the mitochondrial death pathway. It is activated during programmed cell death (apoptosis). Induction of stress signalling pathways JNK/SAPK causes release of cytochrome c from mitochondria and activation of apaf-1 (apoptosome), which in turn cleaves the pro-enzyme of caspase-9 into the active form. Once initiated caspase-9 goes on to cleave procaspase-3 & procaspase-7 and which cleave several cellular targets, including poly ADP ribose polymerase.
Source/Host	E. coli.
Concentration	0.57mg/ml.
Purity	90% (SDS-PAGE).
Short Term Storage	-20°C.

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Formulation	Liquid. In 20mM TRIS-HCl, pH 8.5.
Long Term Storage	-80°C.
Use/Stability	Stability at -20°C: 1-2 weeks.
Handling	Avoid freeze/thaw cycles.

GENE INFORMATION

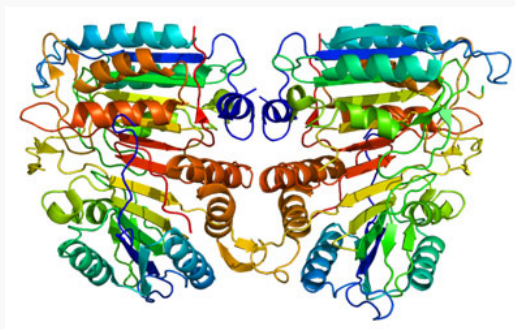
Gene Name	Casp9 caspase 9 [Mus musculus]
Synonyms	caspase 9; Mch6; AI115399; AW493809; ICE-LAP6; Caspase-9; Casp9; caspase-9; OTTMUSP00000010525
Gene ID	12371
mRNA Refseq	NM_015733
Protein Refseq	NP_056548
Chromosome Location	4 E1
Pathway	Alzheimer's disease; Amyotrophic lateral sclerosis (ALS); Apoptosis; Colorectal cancer; Endometrial cancer; Huntington's disease; Non-small cell lung cancer; Pancreatic cancer; Parkinson's disease; Pathways in cancer; Prostate cancer; Small cell lung cancer; VEGF signaling pathway; Viral myocarditis; p53 signaling pathway
Function	cysteine-type peptidase activity; hydrolase activity; peptidase activity; peptide binding; protein binding

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