

Recombinant Mouse Casp3 Protein, MYC/DDK-tagged

Cat. No. Casp3-771M Lot. No. (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of full-length mouse caspase 3 (Casp3), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	<p>This gene encodes a protein that belongs to a highly conserved family of cysteinyl aspartate-specific proteases that function as essential regulators of programmed cell death through apoptosis. Members of this family contain an N-terminal pro-domain and require cleavage at specific aspartate residues to become mature. The protein encoded by this gene belongs to a subgroup of cysteinyl aspartate-specific proteases that are activated by initiator caspases and that perform the proteolytic cleavage of apoptotic target proteins. Mice defective for this gene exhibit a variety of phenotypes including reduced neuronal apoptosis resulting in hyperplasias, hearing loss, attenuated osteogenic differentiation of bone marrow stromal stem cells, and pre- and post-natal lethality. Alternative splicing results in multiple transcript variants.</p>
Molecular Mass	31.9 kDa
Purity	>80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

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Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
GENE INFORMATION	
Gene Name	Casp3 caspase 3 [<i>Mus musculus</i> (house mouse)]
Official Symbol	Casp3
Synonyms	Casp3; caspase 3; CC3; AC-3; Lice; Yama; mldy; CPP32; SCA-1; CASP-3; CPP-32; Caspase-3; A830040C14Rik; caspase-3; SREBP cleavage; activity 1; apopain; caspase 3, apoptosis related cysteine protease; cysteine protease CPP32; protein Yama; EC 3.4.22.56
Gene ID	12367
mRNA Refseq	NM_009810
Protein Refseq	NP_033940
UniProt ID	P70677

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