

Recombinant Mouse Pitrm1 Protein, Myc/DDK-tagged

Cat. No. Pitrm1-4883M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length pitrilysin metallopeptidase 1 (Pitrm1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Metalloendopeptidase of the mitochondrial matrix that functions in peptide cleavage and degradation rather than in protein processing. Has an ATP-independent activity. Specifically cleaves peptides in the range of 5 to 65 residues. Shows a preference for cleavage after small polar residues and before basic residues, but without any positional preference. Degrades the transit peptides of mitochondrial proteins after their cleavage. Also degrades other unstructured peptides. It is also able to degrade amyloid-beta protein 40, one of the peptides produced by APP processing, when it accumulates in mitochondrion. It is a highly efficient protease, at least toward amyloid-beta protein 40. Cleaves that peptide at a specific position and is probably not processive, releasing digested peptides intermediates that can be further cleaved subsequently.
Molecular Mass	117.4 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	Pitrm1 pitrilysin metallepetidase 1 [Mus musculus (house mouse)]
Official Symbol	Pitrm1
Synonyms	PITRM1; pitrilysin metallepetidase 1; presequence protease, mitochondrial; pitrilysin metalloprotease 1; pitrilysin metalloproteinase 1; nuclear transplantation upregulated protein 1; MP1; MP-1; PreP; Ntup1; AA410010; mKIAA1104; 2310012C15Rik
Gene ID	69617
mRNA Refseq	NM_145131
Protein Refseq	NP_660113
UniProt ID	Q8K411

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