

Product datasheet for **TP520510**

Pitrm1 (NM_145131) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse pitrilysin metallepetidase 1 (Pitrm1), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR220510 representing NM_145131 Red=Cloning site Green=Tags(s)

MWRFSGRRGLCAVQRLSCGRVHHRVWREKSDQACERALQYKVGEKIHGFTVNQVTPVPELFLTAVKLSHD
 NTGARYLHLAREDKNNLFSVQFRTPMDSTGVPVLEHTVLCGSQKYPDRDPFFKMLNRSLSSTFMNAMTA
 SDYTIYPFSTQNPKDFQNLLSVYLDATFFPCLRELDWFQEGWRLEHENPRDPQTPLIFKGVFNEMKGA
 TDNERIFSQHLQNKLLPDHTYSVSGGDLPCIPELTWEQLKQFHATHYHPSNARFFTYGNFQLEGLKQI
 HEEALSKFQRLAQSTAVPAQPHWDKPREFHITCGPDSLATETAKQTTVSVSFLLPDITDTFEAFTLSLLS
 SLLIAGPNSPFYKALIESGLGTDSPDVGNGYTREAYFSVGLQGIAEKDVKTRELVDRTIEEVIEKGF
 EDDRIEALLHKIEIQTKHQASAFGLTLTSYIASCWNHDGDPVELLQIGSQLTRFRKCLKENPKFLQEKVE
 QYFKNQHKLTLSMKPDDKYYEKQTMETEKLEQKVNLSPADKQYIEKGLELQTTQSKHQDASCLPAL
 KVSDIEPSMPFTKLDIGLAAGDIPVQYCPQPTNGMVYFRAFSSLNTPEDLRPIVPLFCSVLTKLGGC
 NYREQAQQIELKTGGMSVTPHVLPPDSDLTYEQGVLFSSLCLEARNLPDMMHLWSEIFNPNCFEEEEHFK
 VLVKMTAQELSDSGHLYAALRASKLTTPSGDLQETFSGMDQVKVMKRIAEMTDIKPILRKLPRIKK
 YLLNCDNMRCVSNATPQQMPQAEKEVENFLRNVGRSKKERKPVPHIVEKPTPSGPGAAHVSGSQIVRK
 LVTDPTEFKPCQMKTHFVLPFPVNYIGECVRTVPYADPDHASLKILARLMTAKFLHTEIREKGGAYGGGAK
 LTHSGIFTLYSRDPNSIETLQSFQKAVDWAKSGKFTQQDIDEAKLSVFSTVDSVPAPSDKGMDFLYGL
 SDEMKAQYREQLFAVNHDKLTSVSHKYLIGIGKSTHGLAILGPENSKIADPSWIIK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	117.4 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol



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Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_660113
Locus ID:	69617
UniProt ID:	Q8K411
RefSeq Size:	3547
Cytogenetics:	13 A1
RefSeq ORF:	3108
Synonyms:	2310012C15Rik; AA410010; mKIAA1104; MP-1; MP1; Ntup1; PreP
Summary:	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.[UniProtKB/Swiss-Prot Function]