

Recombinant Human PITRM1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PITRM1-5759H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PITRM1 MS Standard C13 and N15-labeled recombinant protein (NP_055704) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	The protein encoded by this gene is an ATP-dependent metalloprotease that degrades post-cleavage mitochondrial transit peptides. The encoded protein binds zinc and can also degrade amyloid beta A4 protein, suggesting a possible role in Alzheimer's disease.
Molecular Mass	117.5 kDa
AA Sequence	MWRCGGRQGLCVLRRLSGGHAHHRAWRWNSNRACERALQYKLGDKIHGFTVNQ VTSVPELFLTAVKLTHDDTGARYLHLAREDNNLFSVQFRTPMDSTGVPHILEHTVL CGSQKYPCRDPPFFKMLNRSLSFMNAFTASDYTVYPFSTQNPKDFQNLLSVYLDAT FFPCLRELDWFQEGWRLEHENPSPDPQTPLVFKGVVFNEMKGAFTDNERIFSQHLQ NRLLPDHTYSVVSGGDPLCIPELTWEQLKQFHATHYHPSNARFFTYGNFPLEQHLK QIHEEALSKFQKIEPSTVPAQTPWDKPREFQITCGPDSFATDPSKQTTVSVSFLLPD ITDTFEAFTLSLLSSLLTSGPNSPFYKALIESGLGTDSPDVGYNGYTREAYFSVGLQ GIVEKDIETVRSLIDRTIDEVVEKGFEDDRIEALLHKIEIQMKHQSTSFGMLMLTSYIASC WNHDGDPVELLKLGNQLAKFRQCLQENPKFLQEKKVQYFKNNQHKLTLSMRPDDK

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YHEKQAQVEATKLKQKVEALSPGDRQQIYEKGLELRSQQSKPQDASCLPALKVSDIE
PTIPVTELDVVLTAGDIPVQYCAQPTNGMVYFRAFSSLNTLPEELRPYVPLFCSVLTK
LGCGLLDYREQAQQIELKTGGMSASPHVLPDDSHMDTYEQGVLFSSLCLDRNL PDM
MQLWSEIFNNPCFEEEEHFKVLVKMTAQELANGIPDSGHLyasIRAGRTLTPAGDLQ
ETFSGMDQVRLMKRIAEMTDIKPILRKLPRIKKHLLNGDNMRCSVNATPQQMPQTEK
AVEDFLRSIGRSKKERRPVRPHTVEKVPSSSGGDAHVPHGSQVIRKLVMEPTFKP
WQMKTHFLMPFPVNYVGECIRTVPYTDPDHASFEILARLMTAKFLHTEIREKGGAYG
GGAKLSHNGIFTLYSYRDPNTIETLQSFKAVDWAKSGKFTQQDIDEAKLSVFSTVD
APVAPSDKGMDHFLYGLSDEMKAHREQLFAVSHDKLLAVSDRYLGTGKSTHGLAI
LGPENPKIAKDPSWIIRTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name PITRM1 pitrilysin metalloproteinase 1 [Homo sapiens (human)]

Official Symbol PITRM1

Synonyms PITRM1; pitrilysin metalloproteinase 1; pitrilysin metalloproteinase 1; presequence protease, mitochondrial; hMP1; KIAA1104; MP1; PreP; PreP peptidosome; metalloproteinase 1 (pitrilysin family); MGC138192; MGC141929;

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Gene ID	10531
mRNA Refseq	NM_014889
Protein Refseq	NP_055704
MIM	618211
UniProt ID	Q5JRX3
SDS-PAGE	