

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

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

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | PITRM1 MS Standard C13 and N15-labeled recombinant protein (NP_055704) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Description</b>      | 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.                                                                                                                                                                                                                                                                                                                    |
| <b>Molecular Mass</b>   | 117.5 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>AA Sequence</b>      | <p>MWRCGGRQGLCVLRRLSGGHAHHRAWRWNSNRACERALQYKLGDKIHGFTVNQ<br/> VTSVPELFLTAVKLTHDDTGARYLHLAREDNNLFSVQFRTTPMDSTGVPHILEHTVL<br/> CGSQKYPCRDPPFFKMLNRSLSFMNAFTASDYTVYPFSTQNPKDFQNLLSVYLDAT<br/> FFPCLRELDWFQEGWRLEHENPSPDPQTPLVFKGVVFNEMKGAFTDNERIFSQHLQ<br/> NRLLPDHTYSVVSGGDPLCIPELTWEQLKQFHATHYHPSNARFFTYGNFPLEQHLK<br/> QIHEEALSKFQKIEPSTVPAQTPWDKPREFQITCGPDSFATDPSKQTTVSVSFLLPD<br/> ITDTFEAFTLSLLSSLLTSGPNSPFYKALIESGLGTDSPDVGYNGYTREAYFSVGLQ<br/> GIVEKDIETVRSLIDRTIDEVVEKGFEDDRIEALLHKIEIQMKHQSTSFGMLMLTSYIASC<br/> WNHDGDPVELLKLGNQLAKFRQCLQENPKFLQEKVKQYFKNNQHKLTLSMRPDDK</p> |

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YHEKQAQVEATKLKQKVEALSPGDRQQIYEKGLELRSQQSKPQDASCLPALKVSDIE  
PTIPVTELDVVLTAGDIPVQYCAQPTNGMVYFRAFSSNLTPPEELRPYVPLFCSVLTK  
LGCGLLDYREQAQQIELKTGGMSASPHVLPDDSHMDTYEQGVLFSSLCLDRNLPDM  
MQLWSEIFNNPCFEEEEHFKVLVKMTAQELANGIPDSGHLIASIRAGRTLTPAGDLQ  
ETFSGMDQVRLMKRIAEMTDIKPILRKLPRIKKHLLNGDNMRCSVNATPQQMPQTEK  
AVEDFLRSIGRSKKERRPVRPHTVEKVPVSSSGGDAHVPHGSQVIRKLVMEPTFKP  
WQMKTHFLMPFPVNYVGECIRTVPYTDPDHASFEILARLMTAKFLHTEIREKGGAYG  
GGAKLSHNGIFTLYSYRDPNTIETLQSFGKAVDWAKSGKFTQQDIDEAKLSVFSTVD  
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) ]

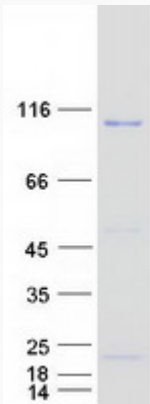
**Official Symbol** PITRM1

**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       |  |