

Recombinant Full Length Human OMA1 Protein, GST-tagged

Cat. No. OMA1-6837HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human OMA1 full-length ORF (NP_660286.1, 1 a.a. - 524 a.a.) recombinant protein with GST-tag at N-terminal was expressed in Wheat Germ.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	524 amino acids
Description	Metalloprotease that is part of the quality control system in the inner membrane of mitochondria. Following stress conditions that induce loss of mitochondrial membrane potential, mediates cleavage of OPA1 at S1 position, leading to OPA1 inactivation and negative regulation of mitochondrial fusion. May also cleave UQCC3 under these conditions. Its role in mitochondrial quality control is essential for regulating lipid metabolism as well as to maintain body temperature and energy expenditure under cold-stress conditions.
Molecular Mass	86.5 kDa
AA Sequence	MSFICGLQSAARNHVFFRFNSLSNWRKCNTLASTSRGCHQVQVNVHIVNKYQGLGV NQCDRWSFLPGNFHFYSTFNKRTGGLSSTKSKEIWRITSKCTVWNDAFSRQLLIKE VTAVPSLSVLHPLSPASIRAIRNFHTSPRFQAAPVPLLLMILKPVQKLFAIIVGRGIRKW WQALPPNKKEVVKENIRKNKWKLFLGLSSFGLLFVVFYFTHLEVSPITGRSKLLLLGK EQFRLLSELEYEAWMEEFKNDMLTEKDARYLAVKEVLCHLIECNKDVPGISQINWVI HVVDSPIIINAFVLPNGQMFVFTGFLNSVTDIHQLSFLLGHEIAHAVLGHAAEKAGMVH

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LLDFLGMIFLTMiWAICPRDSLALLCQWlQSKLQeYMFNRPYSRKLEAEADKIGLLAA
KACADIRASSVFWQQMEFVDSLHGQPKMPEWLSTHPSHGnrVEYLDRlIPQALKIR
EMCNCpPLSNPDPRLLFKLSTKHfLEESEKEDLNITKKQKMDTLPIQKQEQIPLTYIVE
KRTGS

Applications

Enzyme-linked Immunoabsorbent Assay
Western Blot (Recombinant protein)
Antibody Production
Protein Array

Notes Best use within three months from the date of receipt of this protein.

Storage Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name [OMA1](#) [OMA1 zinc metallopeptidase \[Homo sapiens \(human\) \]](#)

Official Symbol [OMA1](#)

Synonyms

OMA1; OMA1 zinc metallopeptidase; DAB1; MPRP1; MPRP-1; YKR087C;
ZMPOMA1; peptidase; 2010001O09Rik; metalloendopeptidase OMA1, mitochondrial;
OMA1 homolog, zinc metallopeptidase; OMA1 zinc metallopeptidase homolog;
metalloprotease-related protein 1; overlapping activity with M-AAA protease;
overlapping with the m-AAA protease 1 homolog; zinc metallopeptidase OMA1

Gene ID [115209](#)

mRNA Refseq [NM_145243](#)

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Protein Refseq	NP_660286
MIM	617081
UniProt ID	Q96E52

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