

Metalloendopeptidase OMA1, mitochondrial (OMA1) Recombinant Protein | OMA1 recombinant protein

Recombinant Human Metalloendopeptidase OMA1, mitochondrial (OMA1)(Active)

CATALOG # AAA279390	HOST E coli (in vitro)
-------------------------------	----------------------------------

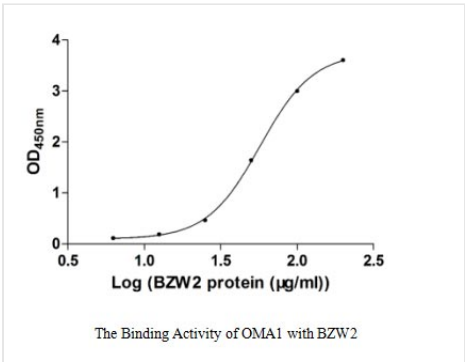
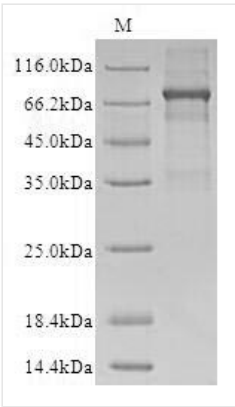
PRODUCT SYNONYMS

Metalloendopeptidase OMA1; mitochondrial (OMA1); Recombinant Human Metalloendopeptidase OMA1; mitochondrial (OMA1)(Active); Metalloprotease-related protein 1; OMA1 recombinant protein

PRODUCT SPECIFICATIONS

Host	E coli (in vitro)
Purity/Purification	Greater than 90% as determined by SDS-PAGE.
Form/Format	Lyophilized powder. Lyophilized from 20 mM Tris-HCl, 0.15 M NaCl, 0.05% FOS12, 6% Trehalose, pH 8.0
Sequence	HVFFRFNSLS NWRKCNTLAS TSRGCHQVQV NHIVNKYQGL GVNQCDRWSF LPGNFHFYST FNNKRTGGLS STKSKEIWRI TSKCTVWDA FSRQLLIKEV TAVPSLSVLH PLSPASIRAI RNFHTSPRFQ AAPVPLLLMI LKPVQKLF AI IVGRGIRKWW QALPPNKKEV VKENIRKNKW KLFLGLSSFG LLFVVIFYTH LEVSPITGRS KLLLLGKEQF RLLSELEYEA WMEEFKNDML TEKDARYLAV KEVLCHLIEC NKDVPGISQI NWVIHVVDSP IINAFVLPNG QMFVFTGFLN SVTDIHQLSF LLGHEIAHAV LGHAAEKAGM VHLLDFLGMI FLTMIWAICP RDSLALLCQW IQSKLQEYMF NRPYSRKLEA EADKIGLLA AKACADIRAS SVFWQQMEFV DSLHGQPKMP EWLSTHPSHG NRVEYLDRLI PQALKIREMC NCPPLSNPDP RLLFKLSTKH FLEESEKEDL NITKKQKMDT LPIQKQEQIP LTYIVEKRTG S
Sequence Length	14-524aa; Full Length
Species	Homo sapiens (Human)
Tag	N-terminal 6xHis-SUMO-tagged
Transmembrane Domain	1TM
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized OMA1 at 5ug/ml can bind human BZW2, the EC50 of human BZM2 is 45.42-72.22ug/ml.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20 degree C/-80 degree C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
Preparation and Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 degree C/-80 degree C. The shelf life of lyophilized form is 12 months at -20 degree C/-80 degree C. Notes: Repeated freezing and thawing is not recommended. Store working aliquots at 4 degree C for up to one week.

IMAGES



Bioactivity

SDS-PAGE
Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

ADDITIONAL INFORMATION

Related Product Information for OMA1 recombinant protein	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.
Product Categories/Family for OMA1 recombinant protein	Cell Biology

NCBI AND UNIPROT INFORMATION

NCBI GI #	21686999
NCBI GeneID	115209
NCBI Accession #	NP_660286.1
NCBI GenBank Nucleotide #	NM_145243.4
UniProt Accession #	Q96E52; Q5T3G6; Q5T3G7; Q5T3G8; Q5T3G9; Q5T3H0; Q8NBB3; D3DQ54
Molecular Weight	55,744 Da
NCBI Official Full Name	metalloendopeptidase OMA1, mitochondrial
NCBI Official Synonym Full Names	OMA1 zinc metallopeptidase
NCBI Official Symbol	OMA1
NCBI Official Synonym Symbols	DAB1; MPRP-1; YKR087C; ZMPOMA1; peptidase; 2010001O09Rik
NCBI Protein Information	metalloendopeptidase OMA1, mitochondrial
UniProt Protein Name	Metalloendopeptidase OMA1, mitochondrial
UniProt Gene Name	OMA1
UniProt Synonym Gene Names	MPRP1; MPRP-1
UniProt Entry Name	OMA1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

