Cysteine Protease ATG4A (atg4a) Xenopus Laevis Recombinant Protein

PRODUCT OVERVIEW

Product Name	Cysteine protease ATG4A (atg4a), Recombinant Protein
Full Product Name	Recombinant Xenopus laevis Cysteine protease ATG4A (atg4a)
Product Gene Name	atg4a recombinant protein
Product Synonym Gene Name	atg4a
Sequence	MDSDPVSDYL KYENEPEYLD LEELPDSDEP VYILGKQYDT KTDKCDLQSD IVSRLWFTYR KKFSPIGGTG PSSDTGWGCM LRCGQMMLAQ ALVCQHLGRD WRWEKHKNHP EEYQQILQCF LDRKDCCYSI HQMAQMGVGE GKSIGEWFGP NTVAQVLKKL ALFDEWNSLA VYVSMDNTVV VEDIKTMCKY QPQSCSMAQA ASHQSTWSRC RDTSGHCSGW RPLLLVVPLR LGINHINPVY VDAFKACFKM PQSLGALGGK PNHAYYFIGF SGDEIIYLDP HTTQTFVDTE EAGTVQDQTY HCQKGPNSMK VLNLDPSVAL GFFCKDENDF NNWCEVIEKE ILKHQSLRMF ELTPKHPPHW PPFIPPTKPE VTTTGAELIE STDKLFDVEE EFEILSV
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	45,298 Da
Sequence Positions	1-397, Full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q6GPU1
Species	Xenopus laevis (African clawed frog)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for atg4a recombinant protein	MBS1393823 is a recombinant protein targeting atg4a. Also known as Recombinant Xenopus laevis Cysteine protease ATG4A (atg4a). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of atg4a recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for atg4a. It may not necessarily be applicable to this product.

NCBI GI #	1069380810
NCBI GeneID	108698409
NCBI Accession #	XP_018085361.1
UniProt Primary Accession #	Q6GPU1

GenBank Nucleotide #	XM_018229872.1
NCBI Official Full Name	cysteine protease ATG4A
NCBI Official Symbol	LOC108698409
UniProt Protein Name	Cysteine protease ATG4A
UniProt Synonym Protein Names	Autophagy-related protein 4 homolog A
Protein Family	Cysteine protease
UniProt Gene Name	atg4a
UniProt Synonym Gene Names	apg4a
NCBI Protein Information	cysteine protease ATG4A
UniProt Comments for atg4a	Cysteine protease required for the cytoplasm to vacuole transport (Cvt) and autophagy. Cleaves the C-terminal amino acid of ATG8 family proteins to reveal a C-terminal glycine. Exposure of the glycine at the C-terminus is essential for ATG8 proteins conjugation to phosphatidylethanolamine (PE) and insertion to membranes, which is necessary for autophagy. Has also an activity of delipidating enzyme for the PE-conjugated forms ().
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