Cysteine Protease ATG4C (ATG4C) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Cysteine protease ATG4C (ATG4C), Recombinant Protein
Full Product Name	Recombinant Human Cysteine protease ATG4C (ATG4C)
Product Gene Name	ATG4C recombinant protein
Product Synonym Gene Name	ATG4C
Sequence	MEATGTDEVD KLKTKFISAW NNMKYSWVLK TKTYFSRNSP VLLLGKCYHF KYEDEDKTLP AESGCTIEDH VIAGNVEEFR KDFISRIWLT YREEFPQIEG SALTTDCGWG CTLRTGQMLL AQGLILHFLG RAWTWPDALN IENSDSESWT SHTVKKFTAS FEASLSGERE FKTPTISLKE TIGKYSDDHE MRNEVYHRKI ISWFGDSPLA LFGLHQLIEY GKKSGKKAGD WYGPAVVAHI LRKAVEEARH PDLQGITIYV AQDCTVYNSD VIDKQSASMT SDNADDKAVI ILVPVRLGGE RTNTDYLEFV KGILSLEYCV GIIGGKPKQS YYFAGFQDDS LIYMDPHYCQ SFVDVSIKDF PLETFHCPSP KKMSFRKMDP SCTIGFYCRN VQDFKRASEE ITKMLKFSSK EKYPLFTFVN GHSRDYDFTS TTTNEEDLFS EDEKKQLKRF STEEFVLL
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	52,497 Da
Sequence Positions	1-458, 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.
OMIM	611339
3D Structure	ModBase 3D Structure for Q96DT6
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ATG4C recombinant protein	Autophagy is the process by which endogenous proteins and damaged organelles are destroyed intracellularly. Autophagy is postulated to be essential for cell homeostasis and cell remodeling during differentiation, metamorphosis, non-apoptotic cell death, and aging. Reduced levels of autophagy have been described in some malignant tumors, and a role for autophagy in controlling the unregulated cell growth linked to cancer has been proposed. This gene encodes a member of the autophagin protein family. The encoded protein is also designated as a member of the C-54 family of cysteine proteases. Alternate transcriptional splice variants, encoding the same protein, have been characterized.
Other Notes	Small volumes of ATG4C 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.
Searchable Terms for ATG4C purchase	MBS1385545 is a recombinant protein targeting ATG4C. Also known as Recombinant Human Cysteine protease ATG4C (ATG4C). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ATG4C. It may not necessarily be applicable to this product.

NCBI GI #	30410844
NCBI GeneID	84938
NCBI Accession #	NP_116241.2
UniProt Primary Accession #	Q96DT6
UniProt Secondary Accession #	Q96K04; A6NLR8; D3DQ58
UniProt Related Accession #	Q96DT6
GenBank Nucleotide #	NM_032852.3
NCBI Official Full Name	cysteine protease ATG4C
NCBI Official Synonym Full Names	autophagy related 4C cysteine peptidase
NCBI Official Symbol	ATG4C
NCBI Official Synonym Symbols	APG4C; AUTL1; AUTL3; APG4-C
UniProt Protein Name	Cysteine protease ATG4C
UniProt Synonym Protein Names	AUT-like 3 cysteine endopeptidase; Autophagin-3; Autophagy-related cysteine endopeptidase 3; Autophagy-related protein 4 homolog C
Protein Family	Cysteine protease
UniProt Gene Name	ATG4C
UniProt Synonym Gene Names	APG4C; AUTL1; AUTL3
NCBI Protein Information	cysteine protease ATG4C
UniProt Comments for ATG4C	Cysteine protease required for the cytoplasm to vacuole transport (Cvt) and autophagy. Is not essential for autophagy development under normal conditions but is required for a proper autophagic response under stressful conditions such as prolonged starvation (). Cleaves the C-terminal amino acid of ATG8 family proteins MAP1LC3 and GABARAPL2, 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.
Research Articles on ATG4C	**1.** association between SNPs and Kashin-Beck disease
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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