Cysteine Protease ATG4B (ATG4B) Chicken Recombinant Protein

PRODUCT OVERVIEW

Product Name	Cysteine protease ATG4B (ATG4B), Recombinant Protein
Full Product Name	Recombinant Chicken Cysteine protease ATG4B (ATG4B)
Product Gene Name	ATG4B recombinant protein
Product Synonym Gene Name	ATG4B
Sequence	MDAATLTYDT LRFEYEDFPE TKEPVWILGR KYSVFTEKEE ILLDVTSRLW FTYRKNFPAI GGTGPTSDTG WGCMLRCGQM IFAQALVCRH LGRDWRWIKG KRQTDNYFSV LNAFIDKKDS YYSIHQIAQM GVGEGKSIGQ WYGPNTVAQV LKKLATFDTW SSLAVHIAMD NTVVMEEIRR LCQSNFSCAG AAACPAVEAD VLYNGYPEEA GVRDKLSLWK PLVLLIPLRL GLTEINEAYI ETLKHCFMMP QSLGVIGGKP NSAHYFIGYV GEELIYLDPH TTQPAVEPSD SGCLPDESFH CQHPPCRMSI AELDPSIAVG FFCHTEEDFN DWCHQIKKLS LVRGALPMFE LVERQPSHFS NPDVLNLTPD SSDADRLERF FDSEDEDFEI LSL
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	38,598 Da
Sequence Positions	1-393, 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 Q6PZ02
Species	Chicken
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ATG4B 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 different isoforms, have been characterized.
Other Notes	Small volumes of ATG4B 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 ATG4B purchase	MBS1420331 is a recombinant protein targeting ATG4B. Also known as Recombinant Chicken Cysteine protease ATG4B (ATG4B). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ATG4B. It may not necessarily be applicable to this product.

NCBI GI #	47087191
NCBI GeneID	404750
NCBI Accession #	NP_998738.1
UniProt Primary Accession #	Q6PZ02
UniProt Secondary Accession #	Q5ZK72
UniProt Related Accession #	Q6PZ02
GenBank Nucleotide #	NM_213573.1
NCBI Official Full Name	cysteine protease ATG4B
NCBI Official Synonym Full Names	autophagy related 4B cysteine peptidase
NCBI Official Symbol	ATG4B
NCBI Official Synonym Symbols	APG4B
UniProt Protein Name	Cysteine protease ATG4B
UniProt Synonym Protein Names	Autophagy-related cysteine endopeptidase 2B; Autophagin-2B; cAut2B; Autophagy-related protein 4 homolog B
Protein Family	Cysteine protease
UniProt Gene Name	ATG4B
UniProt Synonym Gene Names	APG4B; AUT2B; Autophagin-2B; cAut2B
NCBI Protein Information	cysteine protease ATG4B
UniProt Comments for ATG4B	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). Has also an activity of delipidating enzyme for the PE-conjugated forms ().
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