Ubiquitin-Like Protein ATG12 (atg12) Emericella Nidulans Recombinant Protein

PRODUCT OVERVIEW

Product Name	Ubiquitin-like protein ATG12 (atg12), Recombinant Protein
Full Product Name	Recombinant Emericella nidulans Ubiquitin-like protein ATG12 (atg12)
Product Gene Name	atg12 recombinant protein
Product Synonym Gene Name	atg12; AN1760
Product Synonym Names	Ubiquitin-like protein ATG12; Autophagy-related protein 12
Sequence	MSSPSSRISS INNSPNPNLR KPSSRRESLD QPSNAQNAPI PDDEHGADLP LTMSASVVLT SLPRDAHQAL ADAEAIDTGK VTVRFQPLAS APILKNRVFK ISASQKFETV VNFLRKKLNC KDTDSVICYV NSVFAPRLDE GVGGLWRCFK TDDQLIVAYS MTPAFG
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	18,091 Da
Sequence Positions	1-166aa; 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 Q5BCH0
Species	Emericella nidulans (strain FGSC A4 / 38163 / CBS 112.46 / NRRL 194 / M139) (Aspergillus nidulans)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for atg12 recombinant protein	MBS1423859 is a recombinant protein targeting atg12. Also known as Recombinant Emericella nidulans Ubiquitin-like protein ATG12 (atg12). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of atg12 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 atg12. It may not necessarily be applicable to this product.

NCBI GI #	67522607
NCBI GeneID	2875179
NCBI Accession #	XP_659364.1
UniProt Primary Accession #	Q5BCH0
UniProt Secondary Accession #	C8VP62

GenBank Nucleotide #	XM_654272.1
NCBI Official Full Name	hypothetical protein AN1760.2
NCBI Official Symbol	AN1760.2
UniProt Protein Name	Ubiquitin-like protein ATG12
UniProt Synonym Protein Names	Autophagy-related protein 12
Protein Family	Autophagy protein
UniProt Gene Name	atg12
UniProt Synonym Gene Names	AN1760
UniProt Entry Name	ATG12_EMENI
NCBI Protein Information	hypothetical protein
UniProt Comments for atg12	Ubiquitin-like protein involved in cytoplasm to vacuole transport (Cvt), autophagy vesicles formation, mitophagy, and nucleophagy. Conjugation with atg5 through a ubiquitin-like conjugating system involving also atg7 as an E1-like activating enzyme and atg10 as an E2-like conjugating enzyme, is essential for its function. The atg12-atg5 conjugate functions as an E3-like enzyme which is required for lipidation of atg8 and atg8 association to the vesicle membranes ().
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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