Autophagy-Related Protein 3 (atg3) Aspergillus Oryzae Recombinant Protein

PRODUCT OVERVIEW

Product Name	Autophagy-related protein 3 (atg3), Recombinant Protein
Full Product Name	Recombinant Aspergillus oryzae Autophagy-related protein 3 (atg3)
Product Gene Name	atg3 recombinant protein
Product Synonym Gene Name	atg3
Sequence	MNILHSTLST WRDRLAPVSR TSTFRNTGQI TPEEFVLAGD YLVYKFPSWS WADASNPAKR VSYLPPGKQF LVTRGVPCHR RLNDNFAGDA GHDDELVRDM LSGGTGGVDD DGWLRTGGGQ DSADRQENRI KDVRTVDESG NMGEREEEED EIPDMEDEDD DEEAIIRDPA SGTTQPTRTY NLYITYSNFY RTPRLYMSGY LSPSEPLPPH LMMEDVVGDY KDKTVTLEDF PWYDGNVKMA SVHPCRHASV MKTLLDRADA ALKLRREKLK QAQSDPSKAP SVGESGLEGL VDDIKALSLS DQQQHGSDKS GGDEWEVLQH DEEEQVAIRV DQYLVVFLKF IASVTPGIEH DFTMGV
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	39,939 Da
Sequence Positions	1-356, 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 Q2U7R4
Species	Aspergillus oryzae (strain 42149 / RIB 40) (Yellow koji mold)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for atg3 recombinant protein	MBS1337531 is a recombinant protein targeting atg3. Also known as Recombinant Aspergillus oryzae Autophagy-related protein 3 (atg3). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of atg3 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 atg3. It may not necessarily be applicable to this product.

NCBI GI #	169778137
NCBI GeneID	5995591
NCBI Accession #	XP_001823534.1
UniProt Primary Accession #	Q2U7R4

UniProt Related Accession #	Q2U7R4
GenBank Nucleotide #	XM_001823482.3
NCBI Official Full Name	unnamed protein product
NCBI Official Symbol	AO090701000734
UniProt Protein Name	Autophagy-related protein 3
UniProt Synonym Protein Names	Autophagy-related E2-like conjugation enzyme atg3
Protein Family	Autophagy-related protein
UniProt Gene Name	atg3
NCBI Protein Information	hypothetical protein
UniProt Comments for atg3	E2 conjugating enzyme required for the cytoplasm to vacuole transport (Cvt) and autophagy. Required for selective autophagic degradation of the nucleus (nucleophagy) as well as for mitophagy which contributes to regulate mitochondrial quantity and quality by eliminating the mitochondria to a basal level to fulfill cellular energy requirements and preventing excess ROS production. Responsible for the E2-like covalent binding of phosphatidylethanolamine to the C-terminal Gly of atg8. The atg12-atg5 conjugate plays a role of an E3 and promotes the transfer of atg8 from atg3 to phosphatidylethanolamine (PE). This step is required for the membrane association of atg8. The formation of the atg8-phosphatidylethanolamine conjugate is essential for autophagy and for the cytoplasm to vacuole transport (Cvt). The atg8-PE conjugate mediates tethering between adjacent membranes and stimulates membrane hemifusion, leading to expansion of the autophagosomal membrane during autophagy ().
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