Autophagy Protein 5 (ATG5) Candida Glabrata Recombinant Protein

PRODUCT OVERVIEW

Product Name	Autophagy protein 5 (ATG5), Recombinant Protein
Full Product Name	Recombinant Candida glabrata Autophagy protein 5 (ATG5)
Product Gene Name	ATG5 recombinant protein
Product Synonym Gene Name	ATG5; CAGL0M02343g
Product Synonym Names	Autophagy protein 5
Sequence	MGDSKELVWN GSINVQIKLD SRLLVDGVPE GRRLVNIRVP RESHIAIYTP LVLERLRNVL RSDIEELLPK VWYSYKDISL PWSIPFGTLF DIYNGAHKGI SGSRDNYINV WKLNLVTDEK FPINVIPIIE GQDQLRKFMM QSWKQCCFIL NGSSKRVMSL SLQDSLEVWE GVTERDYAKY SGVIKRILPR TPRRIPVAIH AANGGPIVQT TEPTLTDTSF SQAVEGIVKA DFVVCQGIVM YLRDFSDTSL YDVYDKLHSI DGYLHLIANL
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	30,757 Da
Sequence Positions	1-270aa; 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 Q6FJZ6
Species	Candida glabrata (strain 2001 / CBS 138 / JCM 3761 / NBRC 0622 / NRRL Y-65) (Yeast) (Torulopsis glabrata)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ATG5 recombinant protein	MBS1328326 is a recombinant protein targeting ATG5. Also known as Recombinant Candida glabrata Autophagy protein 5 (ATG5). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of ATG5 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 ATG5. It may not necessarily be applicable to this product.

NCBI GI #	50294073
NCBI GeneID	2891456
NCBI Accession #	XP_449448.1
UniProt Primary Accession #	Q6FJZ6

UniProt Related Accession #	Q6FJZ6
GenBank Nucleotide #	XM_449448.1
NCBI Official Full Name	hypothetical protein
NCBI Official Symbol	CAGL0M02343g
UniProt Protein Name	Autophagy protein 5
Protein Family	Autophagy protein
UniProt Gene Name	ATG5
UniProt Entry Name	ATG5_CANGA
NCBI Protein Information	hypothetical protein
UniProt Comments for ATG5	Involved in cytoplasm to vacuole transport (Cvt) and autophagic vesicle formation. Autophagy is essential for maintenance of amino acid levels and protein synthesis under nitrogen starvation. Required for selective autophagic degradation of the nucleus (nucleophagy). Also required for mitophagy, which eliminates defective or superfluous mitochondria in order to fulfill cellular energy requirements and prevent excess ROS production. Conjugation with ATG12, through a ubiquitin-like conjugating system involving ATG7 as an E1-like activating enzyme and ATG10 as an E2-like conjugating enzyme, is essential for its function. The ATG12-ATG5 conjugate acts as an E3-like enzyme which is required for lipidation of ATG8 and ATG8 association to the vesicle membranes ().
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