Serine/Threonine-Protein Kinase ATG1 (ATG1), Partial (ATG1) Ashbya Gossypii Recombinant Protein

PRODUCT OVERVIEW

Product Name	Serine/threonine-protein kinase ATG1 (ATG1), partial, Recombinant Protein
Full Product Name	Recombinant Ashbya gossypii Serine/threonine-protein kinase ATG1 (ATG1), partial
Product Gene Name	ATG1 recombinant protein
Product Synonym Gene Name	ATG1; ACL054W
Product Synonym Names	Serine/threonine-protein kinase ATG1; EC=2.7.11.1; Autophagy-related protein 1
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	109,057 Da
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 Q75CH3
Species	Ashbya gossypii (strain 10895 / CBS 109.51 / FGSC 9923 / NRRL Y-1056) (Yeast) (Eremothecium gossypii)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ATG1 recombinant protein	MBS1373026 is a recombinant protein targeting ATG1. Also known as Recombinant Ashbya gossypii Serine/threonine-protein kinase ATG1 (ATG1), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of ATG1 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 ATG1. It may not necessarily be applicable to this product.

NCBI GI #	45185634
NCBI GeneID	4619475
NCBI Accession #	NP_983350.1
UniProt Primary Accession #	Q75CH3
UniProt Related Accession #	Q75CH3
GenBank Nucleotide #	NM_208703.1
NCBI Official Full Name	ACL054Wp

NCBI Official Symbol	AGOS_ACL054W
UniProt Protein Name	Serine/threonine-protein kinase ATG1
UniProt Synonym Protein Names	Autophagy-related protein 1
Protein Family	Serine/threonine-protein kinase
UniProt Gene Name	ATG1
UniProt Entry Name	ATG1_ASHGO
NCBI Protein Information	ACL054Wp
UniProt Comments for ATG1	Serine/threonine protein kinase involved in the cytoplasm to vacuole transport (Cvt) and found to be essential in autophagy, where it is required for the formation of autophagosomes. Involved in the clearance of protein aggregates which cannot be efficiently cleared by the proteasome. 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. Also involved in endoplasmic reticulum-specific autophagic process, in selective removal of ER-associated degradation (ERAD) substrates. Plays a key role in ATG9 and ATG23 cycling through the pre-autophagosomal structure and is necessary to promote ATG18 binding to ATG9 through phosphorylation of ATG9.
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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