Autophagy-Related Protein 8 (ATG8) Pichia Angusta Recombinant Protein

PRODUCT OVERVIEW

Product Name	Autophagy-related protein 8 (ATG8), Recombinant Protein
Full Product Name	Recombinant Pichia angusta Autophagy-related protein 8 (ATG8)
Product Gene Name	ATG8 recombinant protein
Product Synonym Gene Name	ATG8
Sequence	MRSQFKDEHP FERRKAEASR IRGKFLDRIP VICEKVEESD IPEIDKRKYL VPSDLTVGQF VYVIRKRIQL PSEKAIFIFV NDILPPTASL MSTIYEQYKD EDGFLYILYS GENTFG
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	14,625 Da
Sequence Positions	1-116, Full length
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 Q5QFG1
Species	Pichia angusta (Yeast) (Hansenula polymorpha)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ATG8 recombinant protein	MBS1326425 is a recombinant protein targeting ATG8. Also known as Recombinant Pichia angusta Autophagy-related protein 8 (ATG8). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of ATG8 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 ATG8. It may not necessarily be applicable to this product.

NCBI GI #	62899708
NCBI Accession #	Q5QFG1.1
UniProt Primary Accession #	Q5QFG1
NCBI Official Full Name	Autophagy-related protein 8
UniProt Protein Name	Autophagy-related protein 8
UniProt Synonym Protein Names	Autophagy-related ubiquitin-like modifier ATG8

Protein Family	Autophagy-related protein
UniProt Gene Name	ATG8
UniProt Comments for ATG8	Ubiquitin-like modifier involved in autophagosomes formation. With ATG4, mediates the delivery of the autophagosomes to the vacuole via the microtubule cytoskeleton. 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. Participates also in membrane fusion events that take place in the early secretory pathway. Also involved in endoplasmic reticulum-specific autophagic process and is essential for the survival of cells subjected to severe ER stress. 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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