Atpase GET3 (GET3) Saccharomyces Cerevisiae Recombinant Protein

PRODUCT OVERVIEW

Product Name	ATPase GET3 (GET3), Recombinant Protein
Full Product Name	Recombinant Saccharomyces cerevisiae ATPase GET3 (GET3)
Product Gene Name	GET3 recombinant protein
Product Synonym Gene Name	GET3
Sequence	MDLTVEPNLH SLITSTTHKW IFVGGKGGVG KTTSSCSIAI QMALSQPNKQ FLLISTDPAH NLSDAFGEKF GKDARKVTGM NNLSCMEIDP SAALKDMNDM AVSRANNNGS DGQGDDLGSL LQGGALADLT GSIPGIDEAL SFMEVMKHIK RQEQGEGETF DTVIFDTAPT GHTLRFLQLP NTLSKLLEKF GEITNKLGPM LNSFMGAGNV DISGKLNELK ANVETIRQQF TDPDLTTFVC VCISEFLSLY ETERLIQELI SYDMDVNSII VNQLLFAEND QEHNCKRCQA RWKMQKKYLD QIDELYEDFH VVKMPLCAGE IRGLNNLTKF SQFLNKEYNP ITDGKVIYEL EDKE
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	39,354 Da
Sequence Positions	1-354, 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 Q12154
Species	Saccharomyces cerevisiae (strain 204508 / S288c) (Baker's yeast)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for GET3 recombinant protein	MBS1465562 is a recombinant protein targeting GET3. Also known as Recombinant Saccharomyces cerevisiae ATPase GET3 (GET3). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of GET3 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 GET3. It may not necessarily be applicable to this product.

NCBI GI #	6320103
NCBI GeneID	851458
NCBI Accession #	NP_010183.1
UniProt Primary Accession #	Q12154
UniProt Secondary Accession #	Q6B1B6; D6VRQ0

UniProt Related Accession #	Q12154
GenBank Nucleotide #	NM_001180159.1
NCBI Official Full Name	guanine nucleotide exchange factor GET3
NCBI Official Symbol	GET3
NCBI Official Synonym Symbols	ARR4
UniProt Protein Name	ATPase GET3
UniProt Synonym Protein Names	Arsenical pump-driving ATPase
Protein Family	ATPase
UniProt Gene Name	GET3
NCBI Protein Information	guanine nucleotide exchange factor GET3
UniProt Comments for GET3	ATPase required for the post-translational delivery of tail-anchored (TA) proteins to the endoplasmic reticulum. Recognizes and selectively binds the transmembrane domain of TA proteins in the cytosol. This complex then targets to the endoplasmic reticulum by membrane-bound receptors GET1 and GET2, where the tail-anchored protein is released for insertion. This process is regulated by ATP binding and hydrolysis. ATP binding drives the homodimer towards the closed dimer state, facilitating recognition of newly synthesized TA membrane proteins. ATP hydrolysis is required for insertion. Subsequently, the homodimer reverts towards the open dimer state, lowering its affinity for the GET1-GET2 receptor, and returning it to the cytosol to initiate a new round of targeting. Cooperates with the HDEL receptor ERD2 to mediate the ATP-dependent retrieval of resident ER proteins that contain a C-terminal H-D-E-L retention signal from the Golgi to the ER. Involved in low-level resistance to the oxyanions arsenite and arsenate, and in heat tolerance.
Research Articles on GET3	**1.** Get3 functions as a redox-regulated chaperone, effectively protecting eukaryotic cells against oxidative protein damage.
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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