Dynamin-Like Gtpase MGM1, Mitochondrial (MGM1) Saccharomyces Cerevisiae Recombinant Protein

PRODUCT OVERVIEW

Product Name	Dynamin-like GTPase MGM1, mitochondrial (MGM1), Recombinant Protein
Full Product Name	Recombinant Saccharomyces cerevisiae Dynamin-like GTPase MGM1, mitochondrial (MGM1)
Product Gene Name	MGM1 recombinant protein
Product Synonym Gene Name	MGM1; MDM17
Product Synonym Names	Recombinant Dynamin-like GTPase MGM1, mitochondrial (MGM1); Dynamin-like GTPase MGM1, mitochondrial; Mitochondrial division and morphology protein 17 Mitochondrial genome maintenance protein 1 Cleaved into the following 2 chains: 1. Dynamin-like GTPase MG
Sequence	ATLIAATSLD DDESKRQGDP KDDDDEDDDD EDDENDSVDT TQDEMLNLTK QMIEIRTILN KVDSSSAHLT LPSIVVIGSQ SSGKSSVLES IVGREFLPKG SNMVTRRPIE LTLVNTPNSN NVTADFPSMR LYNIKDFKEV KRMLMELNMA VPTSEAVSEE PIQLTIKSSR VPDLSLVDLP GYIQVEAADQ PIELKTKIRD LCEKYLTAPN IILAISAADV DLANSSALKA SKAADPKGLR TIGVITKLDL VDPEKARSIL NNKKYPLSMG YVGVITKTPS SINRKHLGLF GEAPSSSLSG IFSKGQHGQS SGEENTNGLK QIVSHQFEKA YFKENKKYFT NCQVSTKKLR EKLIKILEIS MSNALEPTST LIQQELDDTS YLFKVEFNDR HLTPKSYLLN NIDVLKLGIK EFQEKFHRNE LKSILRAELD QKVLDVLATR YWKDDNLQDL SSSKLESDTD MLYWHKKLEL ASSGLTKMGI GRLSTMLTTN AILKELDNIL ESTQLKNHEL IKDLVSNTAI NVLNSKYYST ADQVENCIKP FKYEIDLEER DWSLARQHSI NLIKEELRQC NSRYQAIKNA VGSKKLANVM GYLENESNLQ KETLGMSKLL LERGSEAIFL DKRCKVLSFR LKMLKNKCHS TIEKDRCPEV FLSAVSDKLT STAVLFLNVE LLSDFFYNFP IELDRRLTLL GDEQVEMFAK EDPKISRHIE LQKRKELLEL ALEKIDSILV FKKSYKGVSK NL
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 degree C. For extended storage, store at -20 or -80 degree C.
Molecular Weight	99,178 Da
Sequence Positions	140-881
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.
Chromosome Location	Chromosome: XV; NC_001147.6 (738924..741569, complement). Location: chromosome: XV
3D Structure	ModBase 3D Structure for P32266
Species	Saccharomyces cerevisiae (strain 204508 / S288c) (Baker's yeast)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for MGM1 recombinant protein	MBS1254296 is a recombinant protein targeting MGM1. Also known as Recombinant Saccharomyces cerevisiae Dynamin-like GTPase MGM1, mitochondrial (MGM1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of MGM1 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 MGM1. It may not necessarily be applicable to this product.

NCBI GI #	116006501
NCBI GeneID	854386
NCBI Accession #	NP_014854.2
UniProt Primary Accession #	P32266
UniProt Secondary Accession #	Q02609; Q08627; D6W2R7
UniProt Related Accession #	P32266
GenBank Nucleotide #	NM_001183630.1
NCBI Official Full Name	Mgm1p
NCBI Official Symbol	MGM1
NCBI Official Synonym Symbols	MNA1
UniProt Protein Name	Dynamin-like GTPase MGM1, mitochondrial
UniProt Synonym Protein Names	Mitochondrial division and morphology protein 17; Mitochondrial genome maintenance protein 1
Protein Family	Dynamin-like GTPase
UniProt Gene Name	MGM1
UniProt Synonym Gene Names	MDM17; l-MGM1; s-MGM1
UniProt Entry Name	MGM1_YEAST
NCBI Protein Information	Mgm1p
UniProt Comments for MGM1	Function: Dynamin-related GTPase required for mitochondrial fusion. Coordinates interaction between the inner and outer mitochondrial membrane to promote the formation of the double membrane. Ref.7 Ref.8 Ref.9 Ref.11 Subunit structure: Homooligomer. Associates with FZO1 through interaction with the intermembrane space domain of UGO1 which binds FZO1 through its cytoplasmic domain. Ref.8 Ref.9 Ref.13 Subcellular location: Dynamin-like GTPase MGM1 large isoform: Mitochondrion inner membrane; Single-pass type II membrane protein; Intermembrane side Ref.7 Ref.9 Ref.12. Dynamin-like GTPase MGM1 small isoform: Mitochondrion inner membrane; Peripheral membrane protein; Intermembrane side Ref.7 Ref.9 Ref.12. Post-translational modification: Cleavage of the transit peptide by mitochondrial processing protease (MPP) produces a long integral membrane form of MGM1 (l-MGM1). Further processing by the rhomboid protease PCP1 produces a short peripheral membrane form of MGM1 (s-MGM1). Both isoforms are required for full activity. Miscellaneous: Deletion of MGM1 causes the mitochondria to fragment and aggregate, and subsequently to lose their mitochondrial DNA and become respiration deficient. Sequence similarities: Belongs to the dynamin family.Contains 1 GED domain. Sequence caution: The sequence CAA44637.1 differs from that shown. Reason: Frameshift at position 4. The sequence CAA63174.1 differs from that shown. Reason: Erroneous initiation. The sequence CAA99426.1 differs from that shown. Reason: Erroneous initiation. The sequence CAA99428.1 differs from that shown. Reason: Erroneous initiation.
Research Articles on MGM1	**1.** Absence of mitochondrial fusion in the Deltamgm1 mutant leads to a striking reduction of both replicative and chronological lifespan.

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