Mitochondrial Distribution and Morphology Protein 12 (mdm12) Aspergillus Niger Recombinant Protein

PRODUCT OVERVIEW

Product Name	Mitochondrial distribution and morphology protein 12 (mdm12), Recombinant Protein
Full Product Name	Recombinant Aspergillus niger Mitochondrial distribution and morphology protein 12 (mdm12)
Product Gene Name	mdm12 recombinant protein
Sequence	MSIEVDWGAA TSGPDGEALA ERIRSFIHDK FQQVALPRFI RSVQVHSFDF GTIPPELEIK DLCEPFADFY EEDEDDEASD VSEGLVSRHG SPWHGTHPEL NESSFRDDNA INHSLRDPFT EGFQPSALRS PIALSDHLNP HFRSGTPGIP GGTSTLGYHL MSLGGLSGTQ TPLAAVAGGS PFAGGWNDSG MMGPGNRGRP PPPIFTAHQS RPEADIDSSN PTSRPSTSST LPSHPSGSNK NNGDGAGGPD HGSHPEEHGH LDDPTSEEPL RFPRMRERRP EDFQVLCHAK YAGDVRLSLT AEILLDYPMP SFVGLPLKLN VTGITFDGVA VVAYIRKRVH FCFLSSEDAD ALIGSDQPDV GAQTEYSRSG GDATVSAKRQ GGLLQEIRVE SEIGRKEDGK QVLKNVGKVE RFVLAQVRRI FEEELVYPSF WTFLV
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	47,361 Da
Sequence Positions	1-435, 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 A2QAU8
Species	Aspergillus niger (strain CBS 513.88 / FGSC A1513)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for mdm12 recombinant protein	MBS1231943 is a recombinant protein targeting mdm12. Also known as Recombinant Aspergillus niger Mitochondrial distribution and morphology protein 12 (mdm12). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of mdm12 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 mdm12. It may not necessarily be applicable to this product.

NCBI GI #	145230846
NCBI GeneID	4977585
NCBI Accession #	XP_001389687.1

UniProt Primary Accession #	A2QAU8
UniProt Related Accession #	A2QAU8
GenBank Nucleotide #	XM_001389650.2
NCBI Official Full Name	distribution and morphology protein 12
NCBI Official Symbol	ANI_1_1742014
UniProt Protein Name	Mitochondrial distribution and morphology protein 12
UniProt Synonym Protein Names	Mitochondrial inheritance component mdm12
Protein Family	Mitochondrial distribution and morphology protein
UniProt Gene Name	mdm12
NCBI Protein Information	distribution and morphology protein 12
UniProt Comments for mdm12	Component of the ERMES/MDM complex, which serves as a molecular tether to connect the endoplasmic reticulum and mitochondria. Components of this complex are involved in the control of mitochondrial shape and protein biogenesis and may function in phospholipid exchange. mdm12 is required for the interaction of the ER-resident membrane protein mmm1 and the outer mitochondrial membrane-resident beta-barrel protein mdm10. The mdm12-mmm1 subcomplex functions in the major beta-barrel assembly pathway that is responsible for biogenesis of all mitochondrial outer membrane beta-barrel proteins, and acts in a late step after the SAM complex. The mdm10-mdm12-mmm1 subcomplex further acts in the tom40-specific pathway after the action of the mdm12-mmm1 complex. Essential for establishing and maintaining the structure of mitochondria and maintenance of mtDNA nucleoids.
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