Mitochondrial Rho Gtpase (MIRO) Drosophila Melanogaster Recombinant Protein

PRODUCT OVERVIEW

Product Name	Mitochondrial Rho GTPase (Miro), Recombinant Protein
Full Product Name	Recombinant Drosophila melanogaster Mitochondrial Rho GTPase (Miro), partial
Product Gene Name	Miro recombinant protein
Product Synonym Gene Name	Miro
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	76,421 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 Q8IMX7
Species	Drosophila melanogaster (Fruit fly)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Miro recombinant protein	MBS1386342 is a recombinant protein targeting Miro. Also known as Recombinant Drosophila melanogaster Mitochondrial Rho GTPase (Miro), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Miro 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 Miro. It may not necessarily be applicable to this product.

NCBI GI #	442620763
NCBI GeneID	42845
NCBI Accession #	NP_001262895.1
UniProt Primary Accession #	Q8IMX7
UniProt Secondary Accession #	Q8IMX6; Q95TT1
UniProt Related Accession #	Q8IMX7
GenBank Nucleotide #	NM_001275966.1
NCBI Official Full Name	mitochondrial Rho, isoform F
NCBI Official Synonym Full Names	Mitochondrial Rho

NCBI Official Symbol	Miro
NCBI Official Synonym Symbols	B682; CG5410; DmelCG5410; dmiro; dMiro; DmMiro; miro; Q8IMX7-1; Q8IMX7-2
UniProt Protein Name	Mitochondrial Rho GTPase
Protein Family	Mitochondrial Rho GTPase
UniProt Gene Name	Miro
UniProt Synonym Gene Names	Miro; dMiro
NCBI Protein Information	CG5410 gene product from transcript CG5410-RF
UniProt Comments for Miro	Mitochondrial GTPase involved in mitochondrial trafficking. Milt and Miro form an essential protein complex that links Khc to mitochondria for light chain-independent, anterograde transport of mitochondria. Required for axonal transport to synapses within nerve terminals. Required presynaptically but not postsynaptically at neuromuscular junctions (NMJs).
Research Articles on Miro	**1.** A new mode of mitochondrial sorting in polarized cell growth, whereby bi-directional mitochondrial transport undertaken exclusively by dynein is regulated by Milton in the anterograde direction and by a Miro-dependent switch to the retrograde direction.
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