Melanoma Inhibitory Activity Protein 2 (MIA2) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Melanoma inhibitory activity protein 2 (Mia2), Recombinant Protein
Full Product Name	Recombinant Mouse Melanoma inhibitory activity protein 2 (Mia2)
Product Gene Name	Mia2 recombinant protein
Product Synonym Gene Name	Mia2
Sequence	TKLLAHLKKC GDLECETLIS RVLALRDYTG PDCRYLNFTT GEEISVYVKL GGDREDLWAG SKGKDFGFFP RDAVEIEEVF ISEEVEMPTK SDFLCLLGEG YIFGSEQSEL NSEDDEEHMY PYEKDEDQNY NIYEGDFQPE PDLYAAAEGT LLEDQIPASE APDDFRFSSE WKAWEGAGSQ GGGEQDYTAD SDQDLPSLSK PERQGWFGLG TEEAEEKVFE SDTEPTQELA LEEESDLEKL HSGEPQVELE QEPKSETLEF SSVPDEEYEL ESETESILKP QASGWFGEGL TSYLGFGNEE AGLELLSKES NPPLQDIPSS VPPDEEVPAP CREISTDKED AVINDSSVLS PSWFYYGFGM LGFTNADEDN IVSDKGENED GEVDNLKHPI GSDFDPEKEQ ERKIVTVETE DQAGTESVLE KTDESGSMQY LKKFFDNPWG FQSLPEDTEL PFSKKMLDQD DIVENDKIEE LSTENSPTGS MKDPVMLASR YVLSG
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	57,777 Da
Sequence Positions	23-517, 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 Q91ZV0
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Mia2 recombinant protein	MBS1345322 is a recombinant protein targeting Mia2. Also known as Recombinant Mouse Melanoma inhibitory activity protein 2 (Mia2). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Mia2 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 Mia2. It may not necessarily be applicable to this product.

NCBI GI #	28893435
NCBI GeneID	338320
NCBI Accession #	NP_796295.1

UniProt Primary Accession #	Q91ZV0
UniProt Related Accession #	Q8R311; Q91ZV0
GenBank Nucleotide #	NM_177321.2
NCBI Official Full Name	melanoma inhibitory activity protein 2 isoform 2
NCBI Official Synonym Full Names	melanoma inhibitory activity 2
NCBI Official Symbol	Mia2
NCBI Official Synonym Symbols	Mea6; Mgea; Mgea6; Ctage5; D12Bwg0579e
UniProt Protein Name	Melanoma inhibitory activity protein 2
Protein Family	Melanoma inhibitory activity protein
UniProt Gene Name	Mia2
NCBI Protein Information	melanoma inhibitory activity protein 2; cTAGE family member 5
NCBI Summary for Mia2	This gene encodes a protein that is involved in endoplasmic reticulum-to-Golgi trafficking and regulation of cholesterol metabolism. Three major classes of transcripts are generated from this gene- melanoma inhibitory activity 2-specific transcripts, cTAGE family member 5-specific transcripts and transcripts that include exons from both these transcript species. Additionally, alternative splicing in these transcripts results in multiple transcript variants encoding diverse isoforms. A mutation in this gene (couch-potato or cpto) may result in low levels of plasma cholesterol and triglycerides. [provided by RefSeq, Sep 2016]
UniProt Comments for Mia2	Plays a role in the transport of cargos that are too large to fit into COPII-coated vesicles and require specific mechanisms to be incorporated into membrane-bound carriers and exported from the endoplasmic reticulum. Isoform 1 plays a role in the secretion of lipoproteins, pre-chylomicrons and pre-VLDLs, by participating in their export from the endoplasmic reticulum (). Thereby, may play a role in cholesterol and triglyceride homeostasis (PubMed:21807889).
Research Articles on Mia2	**1.** cTAGE5 deletion in pancreatic beta cells impairs proinsulin trafficking and insulin biogenesis in mice.
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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