Junction-Mediating and -Regulatory Protein (JMY) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Junction-mediating and -regulatory protein (Jmy), Recombinant Protein
Full Product Name	Recombinant Mouse Junction-mediating and -regulatory protein (Jmy) , partial
Product Gene Name	Jmy recombinant protein
Product Synonym Gene Name	Jmy
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	108,705 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 Q9QXM1
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Jmy recombinant protein	MBS1406139 is a recombinant protein targeting Jmy. Also known as Recombinant Mouse Junction-mediating and -regulatory protein (Jmy) , partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Jmy 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 Jmy. It may not necessarily be applicable to this product.

NCBI GI #	61098108
NCBI GeneID	57748
NCBI Accession #	NP_067285.2
UniProt Primary Accession #	Q9QXM1
UniProt Secondary Accession #	Q3UQZ0; Q5BL16; Q6NST0; Q8CBP9; Q8VDZ3
UniProt Related Accession #	Q9QXM1
GenBank Nucleotide #	NM_021310.3
NCBI Official Full Name	junction-mediating and -regulatory protein
NCBI Official Synonym Full Names	junction-mediating and regulatory protein

NCBI Official Symbol	Jmy
UniProt Protein Name	Junction-mediating and -regulatory protein
Protein Family	Junction-mediating and -regulatory protein
UniProt Gene Name	Jmy
NCBI Protein Information	junction-mediating and -regulatory protein
UniProt Comments for Jmy	Acts both as a nuclear p53/TP53-cofactor and a cytoplasmic regulator of actin dynamics depending on conditions. In nucleus, acts as a cofactor that increases p53/TP53 response via its interaction with p300/EP300. Increases p53/TP53-dependent transcription and apoptosis, suggesting an important role in p53/TP53 stress response such as DNA damage. In cytoplasm, acts as a nucleation-promoting factor for both branched and unbranched actin filaments. Activates the Arp2/3 complex to induce branched actin filament networks. Also catalyzes actin polymerization in the absence of Arp2/3, creating unbranched filaments. Contributes to cell motility by controlling actin dynamics. May promote the rapid formation of a branched actin network by first nucleating new mother filaments and then activating Arp2/3 to branch off these filaments. The p53/TP53-cofactor and actin activator activities are regulated via its subcellular location.
Research Articles on Jmy	**1.** JMY drives vesicular trafficking in the trans-Golgi region and at ER-membrane contact sites, distinct from other Arp2/3 activators involved in vesicle transport processes such as the related WHAMM or WASH.
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