Serine/Threonine-Protein Kinase MRCK Beta (CDC42BPB) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Serine/threonine-protein kinase MRCK beta (Cdc42bpb), Recombinant Protein
Full Product Name	Recombinant Mouse Serine/threonine-protein kinase MRCK beta (Cdc42bpb) , partial
Product Gene Name	Cdc42bpb recombinant protein
Product Synonym Gene Name	Cdc42bpb
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	194,753 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 Q7TT50
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Cdc42bpb recombinant protein	This gene encodes a member of the serine threonine protein kinase family. The encoded protein contains a Cdc42 Rac-binding p21 binding domain resembling that of PAK kinase. The kinase domain of this protein is most closely related to that of myotonic dystrophy kinase-related ROK. Studies of the similar gene in rat suggested that this kinase may act as a downstream effector of Cdc42 in cytoskeletal reorganization.
Other Notes	Small volumes of Cdc42bpb 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.
Searchable Terms for Cdc42bpb purchase	MBS1347351 is a recombinant protein targeting Cdc42bpb. Also known as Recombinant Mouse Serine/threonine-protein kinase MRCK beta (Cdc42bpb) , partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Cdc42bpb. It may not necessarily be applicable to this product.

NCBI GI #	283135190
NCBI GeneID	217866
NCBI Accession #	NP_898837.2
UniProt Primary Accession #	Q7TT50
UniProt Secondary Accession #	Q69ZR5; Q80W33; E9QK15

UniProt Related Accession #	Q7TT50
GenBank Nucleotide #	NM_183016.2
NCBI Official Full Name	serine/threonine-protein kinase MRCK beta
NCBI Official Synonym Full Names	CDC42 binding protein kinase beta
NCBI Official Symbol	Cdc42bpb
NCBI Official Synonym Symbols	MRCKb
UniProt Protein Name	Serine/threonine-protein kinase MRCK beta
UniProt Synonym Protein Names	CDC42-binding protein kinase beta; DMPK-like beta; Myotonic dystrophy kinase-related CDC42-binding kinase beta; MRCK beta; Myotonic dystrophy protein kinase-like beta
Protein Family	Serine/threonine-protein kinase
UniProt Gene Name	Cdc42bpb
UniProt Synonym Gene Names	MRCK beta; Myotonic dystrophy protein kinase-like beta
NCBI Protein Information	serine/threonine-protein kinase MRCK beta
UniProt Comments for Cdc42bpb	Serine/threonine-protein kinase which is an important downstream effector of CDC42 and plays a role in the regulation of cytoskeleton reorganization and cell migration. Regulates actin cytoskeletal reorganization via phosphorylation of PPP1R12C and MYL9/MLC2. In concert with MYO18A and LURAP1, is involved in modulating lamellar actomyosin retrograde flow that is crucial to cell protrusion and migration. Phosphorylates PPP1R12A (). In concert with FAM89B/LRAP25 mediates the targeting of LIMK1 to the lamellipodium resulting in its activation and subsequent phosphorylation of CFL1 which is important for lamellipodial F-actin regulation (PubMed:25107909).
Research Articles on Cdc42bpb	**1.** First identified and named MRCKb based on sequence similarity to MRCKa (CDC42bpa) and orthology to human MRCKb/CDC42bpb
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