Myosin-Binding Protein C, Slow-Type (MYBPC1) Rat Recombinant Protein

PRODUCT OVERVIEW

Product Name	Myosin-binding protein C, slow-type (Mybpc1), Recombinant Protein
Full Product Name	Recombinant Rat Myosin-binding protein C, slow-type (Mybpc1)
Product Gene Name	Mybpc1 recombinant protein
Product Synonym Gene Name	Mybpc1
Sequence	EEIVPGPKSR YRIKVEGKKH TLIIEGATKA DSAEYSVMTT GGQSSAKLSV DLRPLKITTP LTDQTVKLGK EVCLKCEISE NVPGKWTKNG LPVQEGERLK VVHKGRIHKL VIANALIEDE GEYVFTPDAI TVPLVCQIHV IDPPKIILDG LEADNTVTVI AGSKLRLEIP VTGEPPPKAI WSRADKAIME GSGRIRAESY PDSSTLVIDV AERDDSGVYN INLKNEAGEA HASIKLRLWI SLILRLAPNV TEVGDDWCIM NWEPPVYDGG SPILGYFIER KKKQSSRWMR LNFDLCKETT FEPKKMIEGV AYEVRIFAVN AIGISKPSMP SKPFVPLAVT SPPTLLAVDS VTDSSVTMKW RPPDQIGAAG LSGYVLEYCF EGSTSAKQSN ENGEAANDLP AEDWSLQTQT GSTRPKFTIT GLPTDAKIFV RVKAINAAGA SETKYYSQPI LVKEIIEPPK IRIPRHLKQT YIRRVGEAVN LVIPFQGKPR PELTWKKDGA EIDKNQINIR NSETDTIIFI RKAERSHSGK YDLEVKVDKY VENASIDIQI VDRPGPPQAV TIEDVWGENV ALTWTPPKDD GNAAITGYTI QKADKKSMEW FAVIEHYHRT NATITELVIG N
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	68,737 Da
Sequence Positions	1-621, 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 Q63518
Species	Rat
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Mybpc1 recombinant protein	MBS1306064 is a recombinant protein targeting Mybpc1. Also known as Recombinant Rat Myosin-binding protein C, slow-type (Mybpc1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Mybpc1 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 Mybpc1. It may not necessarily be applicable to this product.

NCBI GI #	692110332
NCBI GeneID	362867

NCBI Accession #	NP_001094228.2
UniProt Primary Accession #	Q63518
UniProt Related Accession #	Q63518
GenBank Nucleotide #	NM_001100758.2
NCBI Official Full Name	myosin-binding protein C, slow-type
NCBI Official Synonym Full Names	myosin binding protein C, slow type
NCBI Official Symbol	Mybpc1
UniProt Protein Name	Myosin-binding protein C, slow-type
UniProt Synonym Protein Names	C-protein, skeletal muscle slow isoform
Protein Family	Myosin-binding protein
UniProt Gene Name	Mybpc1
UniProt Synonym Gene Names	Slow MyBP-C
NCBI Protein Information	myosin-binding protein C, slow-type
NCBI Summary for Mybpc1	structural component of skeletal muscle; plays a role in striated muscle contraction [RGD, Feb 2006]
UniProt Comments for Mybpc1	Thick filament-associated protein located in the crossbridge region of vertebrate striated muscle a bands. In vitro it binds MHC, F-actin and native thin filaments, and modifies the activity of actin-activated myosin ATPase. It may modulate muscle contraction or may play a more structural role.
Research Articles on Mybpc1	**1.** A new ligand of obscurin at the M-band, MyBP-C slow variant-1 and suggest that their interaction contributes to the assembly of M-and A-bands, is identified.
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