Myosin-1 (MYH1) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Myosin-1 (Myh1), Recombinant Protein
Full Product Name	Recombinant Mouse Myosin-1 (Myh1) , partial
Product Gene Name	Myh1 recombinant protein
Product Synonym Gene Name	Myh1
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	223,342 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 Q5SX40
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Myh1 recombinant protein	Myosin is a major contractile protein which converts chemical energy into mechanical energy through the hydrolysis of ATP. Myosin is a hexameric protein composed of a pair of myosin heavy chains (MYH) and two pairs of nonidentical light chains. Myosin heavy chains are encoded by a multigene family. In mammals at least 10 different myosin heavy chain (MYH) isoforms have been described from striated, smooth, and nonmuscle cells. These isoforms show expression that is spatially and temporally regulated during development.
Other Notes	Small volumes of Myh1 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 Myh1 purchase	MBS1477688 is a recombinant protein targeting Myh1. Also known as Recombinant Mouse Myosin-1 (Myh1) , partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Myh1. It may not necessarily be applicable to this product.

NCBI GI #	82524274
NCBI GeneID	17879
NCBI Accession #	NP_109604.1
UniProt Primary Accession #	Q5SX40
UniProt Secondary Accession #	Q32P18
UniProt Related Accession #	Q5SX40

GenBank Nucleotide #	NM_030679.2
NCBI Official Full Name	myosin-1
NCBI Official Synonym Full Names	myosin, heavy polypeptide 1, skeletal muscle, adult
NCBI Official Symbol	Myh1
NCBI Official Synonym Symbols	IId; MdMs; IId/x; Myhs-f; Myhsf2; MHC2X/D; Myhs-f2; MHC-2X/D; MYHC-IIX; MyHC-IId/x; MyHC-IIx/d; A530084A17Rik
UniProt Protein Name	Myosin-1
UniProt Synonym Protein Names	Myosin heavy chain 1; Myosin heavy chain 2x; MyHC-2x; Myosin heavy chain, skeletal muscle, adult 1
UniProt Gene Name	Myh1
UniProt Synonym Gene Names	MyHC-2x
NCBI Protein Information	myosin-1
UniProt Comments for Myh1	Muscle contraction.
Research Articles on Myh1	**1.** Data suggest that single muscle immobilization induces a shift of myosin heavy chain (MHC) isoforms composition toward a faster contractile phenotype and decreases the polymorphic profile of single fibres, and that activation of p38 and JNK could be a potential mechanism involved in these contractile phenotype modifications during muscle immobilization.
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