Myosin-7 (MYH7) Horse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Myosin-7 (MYH7), Recombinant Protein
Full Product Name	Recombinant Horse Myosin-7 (MYH7), partial
Product Gene Name	MYH7 recombinant protein
Product Synonym Gene Name	MYH7
Sequence	EKERLEDQTR PFDLKKDVFV PDDKEEFVKA KIISREGGKI TAETEHGKTV TVKEDQVLQQ NPPKFDKIED MAMLTFLHEP AVLYNLKDRY AAWMIYTYSG LFCVTINPYK WLPVYTAEVV AAYRGKKRSE APPHIFSISD NAYQYMLTDR ENQSILITGE SGAGKTVNTK RVIQYFAVIA AIGDRSKKDQ T
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	223,162 Da
Sequence Positions	20-210aa; partial
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 Q8MJU9
Species	Equus caballus (Horse)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for MYH7 recombinant protein	Muscle myosin is a hexameric protein containing 2 heavy chain subunits, 2 alkali light chain subunits, and 2 regulatory light chain subunits. This gene encodes the beta (or slow) heavy chain subunit of cardiac myosin. It is expressed predominantly in normal human ventricle. It is also expressed in skeletal muscle tissues rich in slow-twitch type I muscle fibers. Changes in the relative abundance of this protein and the alpha (or fast) heavy subunit of cardiac myosin correlate with the contractile velocity of cardiac muscle. Its expression is also altered during thyroid hormone depletion and hemodynamic overloading. Mutations in this gene are associated with familial hypertrophic cardiomyopathy, myosin storage myopathy, dilated cardiomyopathy, and Laing early-onset distal myopathy.
Other Notes	Small volumes of MYH7 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 MYH7 purchase	MBS1284539 is a recombinant protein targeting MYH7. Also known as Recombinant Horse Myosin-7 (MYH7), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MYH7. It may not necessarily be applicable to this product.

NCBI GI #	126352320

NCBI GeneID	791234
NCBI Accession #	NP_001075227.1
UniProt Primary Accession #	Q8MJU9
UniProt Related Accession #	Q8MJU9
GenBank Nucleotide #	NM_001081758.1
NCBI Official Full Name	myosin-7
NCBI Official Symbol	MYH7
NCBI Official Synonym Symbols	MyHC-alpha
UniProt Protein Name	Myosin-7
UniProt Synonym Protein Names	Myosin heavy chain 7; Myosin heavy chain slow isoform; MyHC-slow; Myosin heavy chain, cardiac muscle beta isoform; MyHC-beta
Protein Family	Myosin
UniProt Gene Name	MYH7
UniProt Synonym Gene Names	MyHC-slow; MyHC-beta
NCBI Protein Information	myosin-7
UniProt Comments for MYH7	Myosins are actin-based motor molecules with ATPase activity essential for muscle contraction. Forms regular bipolar thick filaments that, together with actin thin filaments, constitute the fundamental contractile unit of skeletal and cardiac muscle.
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