

Recombinant Human MYH7, GST-tagged

Cat. No. MYH7-56H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human MYH7(1 a.a. - 109 a.a.), fused with GST-tag at N-terminal, was expressed in wheat germ.
Species	Human
Source	Wheat Germ
Description	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.
Molecular Mass	37.73 kDa
AA Sequence	MGDSEMAVFGAAAPYLKSEKERLEAQTRPFDLKKDVFVPDDKQEFVKAKIVSREG GKVTAEETEGKTVTVKEDQ VMQQNPPKFDKIEDMAMLTFLHEPAVLYNLKDRY
Applications	ELISA; WB-Re; AP; Array

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Storage	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
GENE INFORMATION	
Gene Name	MYH7 myosin, heavy chain 7, cardiac muscle, beta [Homo sapiens(human)]
Official Symbol	MYH7
Synonyms	MYH7; CMH1; MPD1; SPMD; SPMM; CMD1S; MYHCB; myosin, heavy chain 7, cardiac muscle, beta; myosin-7; myHC-beta; myhc-slow; myopathy, distal 1; myosin heavy chain 7; beta-myosin heavy chain; myosin heavy chain (AA 1-96); myosin heavy chain slow isoform; rhabdomyosarcoma antigen MU-RMS-40.7A; myosin heavy chain, cardiac muscle beta isoform; myosin, heavy polypeptide 7, cardiac muscle, beta
Gene ID	4625
mRNA Refseq	NM_000257
Protein Refseq	NP_000248
MIM	160760
UniProt ID	P12883
Chromosome Location	14q12
Pathway	Cardiac muscle contraction; Dilated cardiomyopathy; Hypertrophic cardiomyopathy

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(HCM)

Function

ATP binding; ATPase activity; actin-dependent ATPase activity

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