

Recombinant Human MYH7 Protein (Arg1268-Leu1516), His tagged

Cat. No. MYH7-2387H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human MYH7 (Arg1268-Leu1516) protein fused with His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Arg1268-Leu1516
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 distal myopathy.
Molecular Mass	30.59 kDa
Purity	>90 % as determined by SDS-PAGE.

 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

Notes	For research use only.
Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 centigrade for one week. Store at -20 to -80 centigrade for twelve months from the date of receipt.
Storage Buffer	Supplied as solution form in PBS pH 7.5 or lyophilized from PBS pH 7.5.
Reconstitution	Reconstitute in sterile water for a stock solution.
Shipping	In general, proteins are provided as lyophilized powder/frozen liquid. They are shipped out with dry ice/blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name	MYH7 myosin heavy chain 7 [Homo sapiens (human)]
Official Symbol	MYH7
Synonyms	MYH7; myosin heavy chain 7; myosin-7; cardiac muscle myosin heavy chain 7 beta; myHC-beta; myhc-slow; myosin 7; myosin heavy chain beta-subunit; myosin, heavy chain 7, cardiac muscle, beta; myosin, heavy polypeptide 7, cardiac muscle, beta; rhabdomyosarcoma antigen MU-RMS-40.7A; CMH1; MPD1; SPMD; SPMM; CMD1S; MYHCB; CMYP7A; CMYP7B
Gene ID	4625
mRNA Refseq	NM_000257
Protein Refseq	NP_000248

 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



MIM	160760
-----	--------

UniProt ID	P12883
------------	--------

 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