

Recombinant Human Slow Cardiac Myosin Regulatory light chain 2, His-tagged

Cat. No. MYL2-388H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human MYL2 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques, 20.9 kDa (186aa)
Species	Human
Source	E.coli
Description	Myosin, light chain 2 (MYL2) encodes the regulatory light chain associated with cardiac myosin beta heavy chain. It is an important protein involved in the regulation of myosin ATPase activity in smooth muscle and Ca ⁺ triggers the phosphorylation of regulatory light chain that in turn triggers contraction. Mutations in MYL2 are associated with mid-left ventricular chamber type hypertrophic cardiomyopathy.
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MAPKKAKKRA GGANSNVFSM FEQTQIQEFK EAFTIMDQNR DGFIDKNDLR DTFAALGRVN VKNEEIDEMI KEAPGPINFT VFLTMFGEKL KGADPEETIL NAFKVFDPEG KGVLKADYVR EMLTTQAERF SKEEVDQMFA AFPPDVTGNL DYKNLVHIIT HGEEKD
Formulation	Liquid in 20mM Tris-HCl (pH 8.0) containing 20% glycerol 5mM CaCl ₂
Purity	> 95% by SDS PAGE
Concentration	0.5 mg/ml (determined by Bradford assay)

 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

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION
Gene Name

MYL2 myosin, light chain 2, regulatory, cardiac, slow [Homo sapiens]

Synonyms

MYL2; myosin, light chain 2, regulatory, cardiac, slow; MLC2; CMH10; DKFZp779C0562; MYL2; slow cardiac myosin regulatory light chain 2; RLC of myosin; myosin light chain 2; regulatory light chain of myosin; cardiac ventricular myosin light chain 2; myosin regulatory light chain 2, ventricular/cardiac muscle isoform; MLC-2v; myosin regulatory light chain 2, ventricular/cardiac muscle isoform

Gene ID

4633

mRNA Refseq

NM_000432

Protein Refseq

NP_000423

MIM

160781

UniProt ID

P10916

Chromosome Location

12q24.11

Function

actin monomer binding; calcium ion binding; motor activity ;myosin heavy chain binding; protein binding; structural constituent of muscle

 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