

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 SSSLVPRGSH 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) |

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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

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