Recombinant Human MYL2, His-tagged

Cat. No. MYL2-27837TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Myosin Light Chain 2 with N-terminal His tag; 186aa, 20.9 kDa.
Species	Human
Source	E.coli
ProteinLength	166 amino acids
Description	Thus gene encodes the regulatory light chain associated with cardiac myosin beta (or slow) heavy chain. Ca+ triggers the phosphorylation of regulatory light chain that in turn triggers contraction. Mutations in this gene are associated with mid-left ventricular chamber type hypertrophic cardiomyopathy.
Conjugation	HIS
Molecular Weight	20.900kDa inclusive of tags
Form	Liquid
Purity	>95% by SDS-PAGE
Storage buffer	pH: 8.00Constituents:0.24% Tris, 20% Glycerol, 0.05% Calcium chloride
Storage	Please see Notes section

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Sequences of amino acids	MGSSHHHHHHSSGLVPRGSHMAPKKAKKRAGGANSNVFSM FEQTQIQEFKEAFTI MDQNRDGFIDKNDLRDTFAALGRVN VKNEEIDEMIKEAPGPINFTVFLTMFGEKLKG ADPEETIL NAFKVFDPEGKGVLKADYVREMLTTQAERFSKEEVDQMFA AFPPDVTG NLDYKNLVHIITHGEEKD
Sequence Similarities	Contains 3 EF-hand domains.

GENE INFORMATION

Gene Name	MYL2 myosin, light chain 2, regulatory, cardiac, slow [Homo sapiens]
Official Symbol	MYL2
Synonyms	MYL2; myosin, light chain 2, regulatory, cardiac, slow; myosin, light polypeptide 2, regulatory, cardiac, slow; myosin regulatory light chain 2, ventricular/cardiac muscle isoform; cardiac ventricular myosin light chain 2; CMH10;
Gene ID	4633
mRNA Refseq	NM_000432
Protein Refseq	NP_000423
MIM	160781
Uniprot ID	P10916
Chromosome Location	12q24.11
Pathway	CDC42 signaling events, organism-specific biosystem; Cardiac muscle contraction,

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	organism-specific biosystem; Cardiac muscle contraction, conserved biosystem; Dilated cardiomyopathy, organism-specific biosystem; Dilated cardiomyopathy, conserved biosystem;
Function	actin monomer binding; calcium ion binding; myosin heavy chain binding; protein binding; structural constituent of muscle;

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