

Recombinant Human Myosin Light Chain, Phosphorylatable, Fast Skeletal Muscle, His-tagged

Cat. No. MYLPF-5081H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human MYLPF protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.
Species	Human
Source	Human
Description	Myosin regulatory light chains, including MRCL3, MYLPF and MYL9, regulate contraction in smooth muscle and non-muscle cells via phosphorylation by myosin light chain kinase (MLCK). Phosphorylation of myosin regulatory light chains, catalyzed by MLCK in the presence of calcium and calmodulin, increases the actin-activated myosin ATPase activity, thereby regulating the contractile activity. MYLPF is critically important for fast and slow skeletal muscle development.
Concentration	0.25 mg/ml
Form	Supplied as a liquid in 20mM Tris-HCl buffer, pH 8.0, containing 1mM DTT, 10% glycerol and 100mM NaCl.
Purity	> 85% by SDS - PAGE
Sequence	1-169 amino acids: MGSSHHHHHH SSGLVPRGSH MAPKRAKRRT VEGGSSSVFS MFDQTQIQEF KEAFTVIDQN RDGIIDKEDL RDTFAAMGRL NVKNEELDAM MKEASGPINF TVFLTMFGEK LKGADPEDVI TGAFKVLDP E GKGTIKKKFL

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EELLTTQCDR FSQEEIKNMW AAFPPDVGGN VDYKNICYVI THGDAKDQE

Molecular Mass 21.2 kDa (189aa), confirmed by MALDI-TOF

Applications SDS-PAGE

Storage Store at 4 deg C for short term storage (1/2 weeks). Aliquot and store at -20 deg C or -70 deg C for long term storage. Avoid repeated freeze/thaw cycles.

GENE INFORMATION

Gene Name [MYLPF myosin light chain, phosphorylatable, fast skeletal muscle \[Homo sapiens \]](#)

Official Symbol MYLPF

Synonyms myosin light chain, phosphorylatable, fast skeletal muscle; MRLC2; MYL11; HUMMLC2B; MGC13450; DKFZp779C0757; MYLPF; myosin light chain 2; myosin regulatory light chain 2; fast skeletal myosin light chain 2; myosin, light chain 11, regulatory; MLC2B; Fast skeletal myosin light chain 2

Gene ID [29895](#)

mRNA Refseq [NM_013292](#)

Protein Refseq [NP_037424](#)

UniProt ID Q96A32

Chromosome Location 16p11.2

Pathway ErbB1 downstream signaling; Focal adhesion; Leukocyte transendothelial migration;

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Regulation of actin cytoskeleton; Tight junction

Function

calcium ion binding; structural constituent of muscle

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