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32-4271: Recombinant Human Myosin Light chain, Phosphorylatable, Fast Skeletal Muscle

Alternative Name : Myosin regulatory light chain 2 skeletal muscle isoform,Fast skeletal myosin light chain 2,MLC2B,MYLPF,MRLC2,MYL11,HUMMLC2B.

Description

Source : Escherichia Coli. MYLPF produced in E.Coli is a single, non-glycosylated polypeptide chain containing 189 amino acids (1-169 a.a) and having a molecular mass of 21.2kDa.MYLPF is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. Myosin regulatory light chains, including MRCL3, MYLPF and MYL9, regulate contraction in smooth muscle and non-muscle cells via phosphorylation by MLCK (myosin light chain kinase). Phosphorylation of myosin regulatory light chains, catalyzed by MLCK in the presence of calcium and calmodulin, increases the actin-activated myosin ATPase activity, thus regulating the contractile activity. MYLPF is vital for fast and slow skeletal muscle development.

Product Info

Amount :	10 µg
Purification :	Greater than 85.0% as determined by SDS-PAGE.
Content :	MYLPF protein solution (0.25mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 10% glycerol and 100mM NaCl.
Storage condition :	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.
Amino Acid :	MGSSHHHHHH SSGLVPRGSH MAPKRAKRRT VEGGSSSVFS MFDQTQIQEF KEAFTVIDQN RDGIIDKEDL RDTFAAMGRL NVKNEELDAM MKEASGPINF TVFLTMFGEK LKGADPEDVI TGAFKVLDPE GKGTIKKKFL EELLTTQCDR FSQEEIKNMW AAFPPDVGGN VDYKNICYVI THGDAKDQE.