

MYLPF Human

Description: 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.

Catalog #: PRPS-250

For research use only.

Synonyms: Myosin regulatory light chain 2 skeletal muscle isoform, Fast skeletal myosin light chain 2, MLC2B, MYLPF, MRCL2, MYL11, HUMMLC2B.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence: MGSSHHHHHH SSGLVPRGSH MAPKRAKRRT VEGGSSSVFS
MFDQTQIQEF KEAFTVIDQN RDGIIDKEDL RDTFAAMGRL NVKNEELDAM MKEASGPINF
TVFLTMFGEK LKGADPEDVI TGAFKVLDPK GKGTIKKKFL EELLTTQCDR FSQEEIKNMW
AAFPDVGGN VDYKNICYVI THGDAKDQE.

Purity: Greater than 85.0% as determined by SDS-PAGE.

Formulation:

MYLPF protein solution (0.25mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 10% glycerol and 100mM NaCl.

Stability:

MYLPF Human Recombinant although stable at 4°C for 1 week, should be stored below -18°C. Please prevent freeze thaw cycles.

Usage:

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Introduction:

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.

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