9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

MYLPF Human

Myosin Light chain, Phosphorylatable, Fast Skeletal Muscle Human Recombinant RCP1438

Product Overview

Name	MYLPF Human

Description

Myosin Light chain, Phosphorylatable, Fast Skeletal Muscle Human Recombinant

Accession (Primary)	Q96A32

Synonyms

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

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.

Source

Escherichia Coli.

Physical Appearance

Sterile Filtered colorless solution.

Formulation

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

Stability

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.

Purity

Greater than 85.0% as determined by SDS-PAGE.

Amino acid sequence

MGSSHHHHHH SSGLVPRGSH MAPKRAKRRT VEGGSSSVFS MFDQTQIQEF KEAFTVIDQN RDGIIDKEDL RDTFAAMGRL NVKNEELDAM MKEASGPINF TVFLTMFGEK LKGADPEDVI TGAFKVLDPE GKGTIKKKFL EELLTTQCDR FSQEEIKNMW AAFPPDVGGN VDYKNICYVI THGDAKDQE.

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Precautions

MYLPF Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q96A32)