MYLPF, 1-169aa, Human, His tag, E.coli

Cat.NO.: TP03071

3th Edition

Synonyms: Myosin regulatory light chain 2, skeletal muscle isoform, MRLC2, MYL11, Fast skeletal myosin light chain 2, MLC2B

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.

Form: Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 100mM NaCl

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

Sequences:
MGSSHHHHHHSSGLVPRGSHMAPKRAKRRTVEGGSSSVFSMFDQTQIQEFKEAFTVIDQNRDGIIDKEDLRDTFA
AMGRLNVKNEELDAMMKEASGPINFTVFLTMFGEKLKGADPEDVITGAFKVLDPEGKGTIKKKFLEELLTTQCDRFS
QEEIKNMWAAFPPDVGGNVDYKNICYVITHGDAKDQE

Purity:> 95% by HPLC

Concentration:0.25mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.