NKMAXBIO We support you, we believe in your research

Recombinant human MYLPF protein

Catalog Number: ATGP1097

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-169aa

UniProt No.

096A32

NCBI Accession No.

NP 037424

Alternative Names

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

PRODUCT SPECIFICATION

Molecular Weight

21.2 kDa (189aa) confirmed by MALDI-TOF

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

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

Purity

> 85% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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. Recombinant human MYLPF protein, fused to His-tag at N-terminus, was expressed in E.



NKMAXBio We support you, we believe in your research

Recombinant human MYLPF protein

Catalog Number: ATGP1097

coli and purified by using conventional chromatography techniques.

Amino acid Sequence

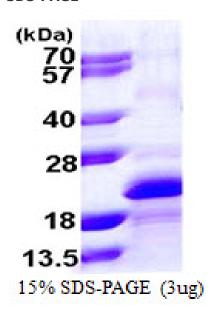
MGSSHHHHHH SSGLVPRGSH MAPKRAKRRT VEGGSSSVFS MFDQTQIQEF KEAFTVIDQN RDGIIDKEDL RDTFAAMGRL NVKNEELDAM MKEASGPINF TVFLTMFGEK LKGADPEDVI TGAFKVLDPE GKGTIKKKFL EELLTTQCDR FSQEEIKNMW AAFPPDVGGN VDYKNICYVI THGDAKDQE

General References

Wang Y, et al. (2007) FASEB J. 21(9):2205-14. Gittings W, et al. (2011) J Muscle Res Cell Motil. 31(5-6):337-48.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

