Recombinant mouse MYL9 protein

Catalog Number: ATGP3077

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-172aa

UniProt No.
Q9CQ19

NCBI Accession No.
NP_742116

Alternative Names
Myosin regulatory light polypeptide 9, AI327049, MLC20, Mylc2c, RLC-C, Myosin regulatory light chain 9, Myosin regulatory light chain 2 smooth muscle isoform, Myrl2

PRODUCT SPECIFICATION

Molecular Weight
22.4Da (196aa) confirmed by MALDI-TOF

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol, 1mM DTT

Purity
> 90% 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
Myl9 also known as myosin regulatory light polypeptide 9 is one of the numerous regulatory myosin light chains. Regulatory myosin light chains regulate contraction in smooth muscle and non-muscle cells via phosphorylation by myosin light chain kinase (MLCK). Phosphorylation of regulatory myosin light chains is catalyzed by MLCK in the presence of calcium and calmodulin and it increases the actin-activated myosin ATPase activity, thereby regulates the contractile activity. Recombinant mouse Myl9 was expressed in E. coli and purified by using

conventional chromatography techniques.

Amino acid Sequence

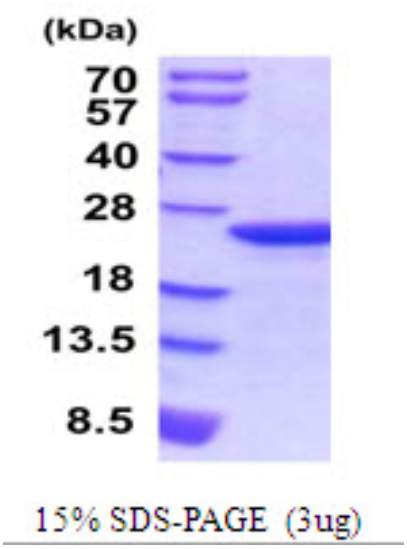
<MGSSHHHHHH SSGLVPRGSH MGSH>MSSKRA KAKTTKKRPQ RATSNVFAMF DQSQIQEFKE AFNMIDQNRD GFIDKEDLHD MLASLGKNPT DEYLEGMMNE APGPINFTMF LTMFGEKLNG TDPEDVIRNA FACFDEEASG FIHEDHLREL LTTMGDRFTD EEVDEMYREA PIDKKGNFNY VEFTRILKHG AKDKDD

General References

Ma Z., et al. (2006) Mol. Cell. Biol. 26:9016-9034

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

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