Recombinant human MYL9 protein

Catalog Number: ATGP0923

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-172aa

UniProt No.
P24844

NCBI Accession No.
NP_006088

Alternative Names
Myosin light chain 9, Myosin regulatory light polypeptide 9, 20 kDa myosin light chain, LC20, MLC-2C, Myosin RLC, Myosin regulatory light chain 2 smooth muscle isoform, Myosin regulatory light chain 9, Myosin regulatory light chain MRLC1, MLC2, MYRL2

PRODUCT SPECIFICATION

Molecular Weight
21.9 kDa (192aa) confirmed by MALDI-TOF

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 1mM DTT, 10% glycerol

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 MLC2, 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

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contractile activity. Recombinant human MYL9 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

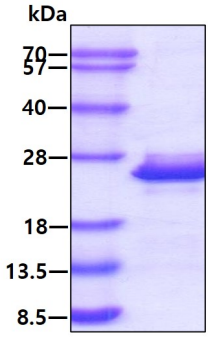
<MGSSHHHHHH SSGLVPRGSH> MSSKRAKAKT TKKRPQRATS NVFAMFDQSQ IQEFKEAFNM IDQNRDGFID KEDLHDMLAS LGKNPTDEYL EGMMSEAPGP INFTMFLTMF GEKLNGTDPE DVIRNAFACF DEEASGFIHE DHLRELLTTM GDRFTDEEVD EMYREAPIDK KGNFNYVEFT RILKHGAKDK DD

General References

Gilles L., et al. (2009) Blood. 114(19):4221-32.
Medjkane S., et al. (2009) Nat Cell Biol. 11(3):257-68.

DATA

SDS-PAGE



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