

Recombinant human MYL12A protein

Catalog Number: ATGP1163

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-171aa

UniProt No.

P19105

NCBI Accession No.

NP_006462

Alternative Names

Myosin regulatory light chain 12A, MLCB, MRCL3, MRLC3, MYL2B

PRODUCT SPECIFICATION

Molecular Weight

22.4 kDa (195aa) confirmed by MALDI-TOF

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% 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

MYL12A, also known as myosin regulatory light chain 12A, plays an important role in regulation of both smooth muscle and nonmuscle cell contractile activity via its phosphorylation. This protein implicated in cytokinesis, receptor capping, and cell locomotion. Recombinant human MYL12A protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

Amino acid Sequence

<MGSSHHHHHH SGLVPRGSH MGSH>MSSKRT KTKTKRPRQR ATSNVFAMFD QSQIQEFKEA FNMIQNRDG

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FIDKEDLHDM LASLGKNPTD EYLDAMMNEA PGPINFTMFL TMFGEKLNLT DPEDVIRNAF ACFDEEATGT IQEDYLRELL
TTMGDRFTDE EVDELYREAP IDKKGNFNYI EFTRILKHGA KDKDD

General References

Grant J.W., et al. (1990) Nucleic Acids Res. 18:5892-5892

Yu L.-R., et al. (2007) J. Proteome Res. 6:4150-4162

DATA

SDS-PAGE

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

