

Recombinant human MYL5 protein

Catalog Number: ATGP1227

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-173aa

UniProt No.

Q02045

NCBI Accession No.

NP_002468

Alternative Names

Myosin light chain 5 Isoform1

PRODUCT SPECIFICATION

Molecular Weight

22.1 kDa (197aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

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

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

Myosin regulatory light chain 5, also known as MYL5, is a hexameric ATPase cellular motor protein. Myosin is composed of two heavy chains, two nonphosphorylatable alkali light chains, and two phosphorylatable regulatory light chains. MYL5 is a regulatory light chain and is expressed in fetal muscle and in adult retina, cerebellum, and basal ganglia. Reconstitution of myosin with regulatory light chain 5 or alkali light chain increases filament velocity to intermediate rates, and readdition of both classes of light chains fully restores the original sliding velocity. Recombinant human MYL5 protein, fused to His-tag at N-terminus, was expressed in E.

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coli and purified by using conventional chromatography.

Amino acid Sequence

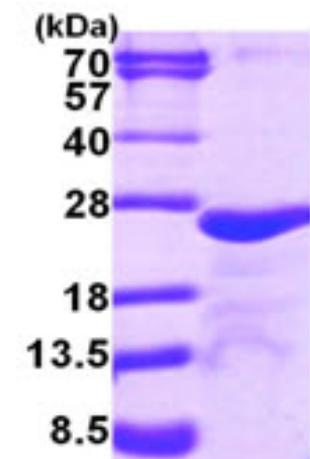
MGSSHHHHHH SSGLVPRGSH MGSHTMASRKT KKKEGGALRA QRASSNVFSN FEQTQIQEFK EAFTLMDQNR DGFIDKEDLK
DTYASLGKTN VKDDELDA ML KEASGPINFT MFLNLFGEKL SGTDAEETIL NAFKMLDPDG KGKINKEYIK RLLMSQADKM
TAAEVDQMFQ FASIDVAGNL DYKALSYVIT HGEEKEE

General References

Collins C., et al. (1993) Hum Mol Genet. 1:727-733.
Lowey S., et al. (1993) Nature. 365:454-456.

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)