

# 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**

&gt; 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 MGSHTASRKT KKKEGGALRA QRASSNVFSN FEQTQIQEFK EAFTLMDQNR DGFIDKEDLK  
DTYASLGKTN VKDDELDAML KEASGPINFT MFLNLFGEKL SGTDAEETIL NAFKMLDPDG KGKINKEYIK RLLMSQADKM  
TAAEVDQMFQ FASIDVAGNL DYKALSYVIT HGEEKEE

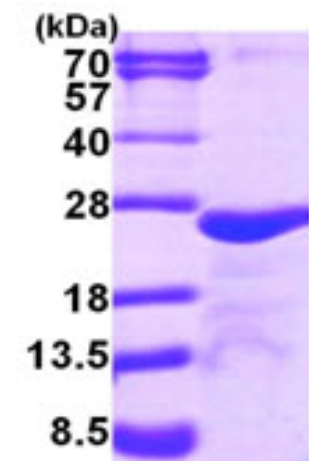
### General References

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)