Recombinant human MYL5 protein

Catalog Number: ATGP1188

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-132aa

UniProt No.
Q02045

NCBI Accession No.
AAH40050.1

Alternative Names
Myosin regulatory light chain 5 isoform 2, Myosin regulatory light chain 5, isoform 2, MYL 5, MyLC 2, MyLC2, Myosin light chain 5, Myosin light chain 5 regulatory, Myosin light polypeptide 5, Myosin light polypeptide 5 regulatory, Myosin regulatory light chain 5, Superfast myosin regulatory light chain 2

PRODUCT SPECIFICATION

Molecular Weight
17.4 kDa (156aa) confirmed by MALDI-TOF

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 30% glycerol, 0.1M NaCl

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

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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. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

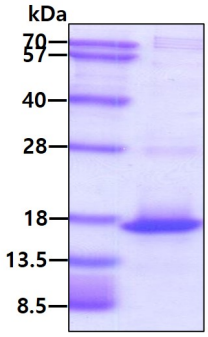
<MGSSHHHHHH SSGLVPRGSH MGSH>MDQNRD GFIDKEDLKD TYASLGKTNV KDDELDAMLK EASGPINFTM FLNLFGEKLS GTDAEETILN AFKMLDPDGK GKINKEYIKR LLMSQADKMT AEEVDQMFQF ASIDVAGNLD YKALSYVITH GEEKEE

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