

Product information

MYL5, 1-132 aa

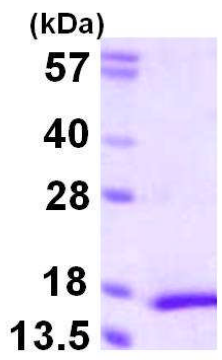
Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP1188

Full name: Myosin regulatory light chain 5, isoform 2

NCBI Accession No.: AAH40050

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.coli* and purified by using conventional chromatography techniques.

<p>Form: Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 30% glycerol, 0.1M NaCl</p> <p>Molecular Weight: 17.4 kDa (156aa), confirmed by MALDI-TOF</p> <p>Purity: > 90% by SDS - PAGE</p> <p>Concentration: 0.5 mg/ml (determined by Bradford assay)</p>	
<p>Sequences of amino acids:</p> <p>MGSSHHHHHH SSSLVPRGSH MGSMDQNRD GFIDKEDLKD TYASLGKTNV KDELDAMLK EASGPINFTM FLNLFGEKLS GTDAEETILN AFKMLDPDGK GKINKEYIKR LLMSQADKMT AEEVDQMFQF ASIDVAGNLD YKALSYVITH GEEKEE</p>	

General references:

Collins C., *et al.* (1993) *Hum Mol Genet.* 1:727-733.

Lowey S., *et al.* (1993) *Nature.* 365:454-456.

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



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