

# Product information

## MYL5, 1-173aa

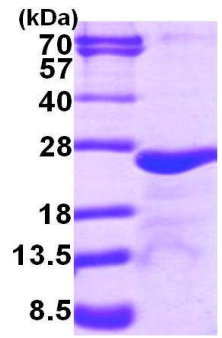
Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP1227

**Full name:** Myosin light chain 5 Isoform1

**NCBI Accession No.:** NP\_002468

**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.

<p><b>Form:</b> Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol 0.1M NaCl, 1mM DTT, 0.1mM PMSF</p> <p><b>Molecular Weight:</b> 22.1 kDa(197aa), confirmed by MALDI-TOF</p> <p><b>Purity:</b> &gt; 90% by SDS - PAGE</p> <p><b>Concentration:</b> 0.5 mg/ml (determined by Bradford assay)</p>	 <p>15% SDS-PAGE (3ug)</p>
<p><b>Sequences of amino acids:</b></p> <p>MGSSHHHHHH SSGLVPRGSH MGSMMASRKT KKKEGGALRA QRASSNVFSN FEQTQIQEFK EAFTLMDQNR DGFIDKEDLK DTYASLGKTN VKDDELDA ML KEASGPINFT MFLNLFGEKL SGTDAEETIL NAFKMLDPDG KGKINKEYIK RLLMSQADKM TAAEVDQMFQ FASIDVAGNL DYKALS YVIT HGEEKEE</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.**