

## MYL5 (1-173 a.a.) Human

**Description:** MYL5 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 197 amino acids (1-173 a.a.) and having a molecular mass of 22.1kDa. MYL5 is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

**Catalog #:** PRPS-950

For research use only.

**Synonyms:** Myosin light chain 5, Myosin regulatory light chain 5, Superfast myosin regulatory light chain 2, MYLC2, MyLC-2, MYL5.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile Filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MGSHTMASRKT KKKEGGALRA  
QRASSNVFSN FEQTQIQEFK EAFTLMDQNR DGFIDKEDLK DTYASLGKTN VKDDELDAML  
KEASGPINFT MFLNLFGEKL SGTDAAETIL NAFKMLDPDG KGKINKEYIK RLLMSQADKM  
TAAEVDQMFQ FASIDVAGNLDYKALSYVIT HGEEKEE.

**Purity:** Greater than 90.0% as determined by SDS-PAGE.

**Formulation:**

MYL5 protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 20% glycerol, 0.1M NaCl, 1mM DTT and 0.1mM PMSF.

**Stability:**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Introduction:**

Myosin regulatory light chain 5 (MYL5) is a hexameric ATPase cellular motor protein. Myosin is comprised of 2 heavy chains, 2 nonphosphorylatable alkali light chains, and 2 phosphorylatable regulatory light chains. MYL5 is a regulatory light chain and is expressed in the fetal muscle and in the adult retina, cerebellum, and basal ganglia. The reconstitution of myosin with MYL5 or alkali light chain increases filament velocity to intermediate rates, and the re-addition of both classes of light chains fully reinstates the original sliding pace.

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