9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
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# MYL5 (1-173 a.a.) Human

*Myosin Light Chain 5 (1-173 a.a.) Human Recombinant*
*RCP1431*

## Product Overview

| | |
|---|---|
| Name | MYL5 (1-173 a.a.) Human |
| **Description** | |
| Myosin Light Chain 5 (1-173 a.a.) Human Recombinant | |
| Accession (Primary) | Q02045 |
| **Synonyms** | |
| Myosin light chain 5, Myosin regulatory light chain 5, Superfast myosin regulatory light chain 2, MYLC2, MyLC-2, MYL5. | |
| **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. | |
| **Source** | |
| Escherichia Coli. | |
| **Physical Appearance** | |
| Sterile Filtered colorless solution. | |
| **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. | |
| **Purity** | |
| Greater than 90.0% as determined by SDS-PAGE. | |
| **Amino acid sequence** | |
| MGSSHHHHHH SSGLVPRGSH MGSH MASRKT KKKEGGALRA QRASSNVFSN FEQTQIQEFK EAFTLMDQNR DGFIDKEDLK DTYASLGKTN VKDDELDAML KEASGPINFT MFLNLFGEKL SGTDAEETIL NAFKMLDPDG | |

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KGKINKEYIK RLLMSQADKM TAEEVDQMFQ FASIDVAGNL DYKALSYVIT HGEEKEE.

**Precautions**

MYL5 (1-173 a.a.) Human is for research use only and not for use in diagnostic or therapeutic procedures.

## Target Information: ( Q02045 )