



Product Datasheet

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| Product Name | Myosin Light Chain 1 Human Recombinant |
| Cata No | CB500986 |
| Source | <i>Escherichia Coli.</i> |
| Synonyms | Myosin light chain 1 skeletal muscle isoform, MLC1F, A1 catalytic, Alkali myosin light chain 1, MYL1, MLC3F. |

Description

Myosin is a hexameric ATPase cellular motor protein, which is composed of 2 heavy chains, 2 non-phosphorylatable alkali light chains, and 2 phosphorylatable regulatory light chains. MYL1 gene encodes a myosin alkali light chain expressed in fast skeletal muscle. Two transcript variants have been identified for the MYL1 gene. In humans MYL1 is localized to chromosome 2q32.1-qter. The Myl1 locus encodes two alkali myosin light chains- Mlc1f and Mlc3f, from two promoters that are differentially regulated throughout development. The Mlc1f promoter is active in embryonic, fetal and adult fast skeletal muscle while the Mlc3f promoter is upregulated during fetal development and stays on in adult fast skeletal muscle. Recombinant Human Ventricular Myosin Light Chain-1 (MYL1) protein has a molecular mass of 25 kDa and is fused to 7 amino acids at N-terminus.

The MYL1 protein was affinity purified using anti MYL1 monoclonal antibody 39-15 column.

Physical Appearance

Sterile Filtered clear solution.

Purity

Greater than 90.0% as determined by SDS-PAGE.

Formulation

Human MYL1 in 10mM Tris -HCl, 1mM EDTA PH 7.5.

Stability

Store vial at -20°C to -80°C. When stored at the recommended temperature, this protein is stable for 12 months.

Please prevent freeze-thaw cycles.

Applications

Calibrator and control for immunoassays
Western Blotting