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## Product Data Sheet

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Product Name: MYL1 Human  
Cat. No.: GP23981  
Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Myosin light chain 1 skeletal muscle isoform; MLC1F; A1 catalytic; Alkali myosin light chain 1; MYL1; MLC3F.		
Formulation	Human MYL1 in 10mM Tris -HCl, 1mM EDTA PH 7.5.		

### Introduction

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.

### 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.

### Background

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.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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