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## Product Data Sheet

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Product Name: MYL5 Human  
 Cat. No.: GP23986  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Myosin light chain 5; Myosin regulatory light chain 5; Superfast myosin regulatory light chain 2; MYLC2; MyLC-2; MYL5.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMDQNRD GFIDKEDLKD TYASLGKTNV KDELDAMLK EASGPINFTM FLNLFGEKLS GTDAEETILN AFKMLDPDGK GKINKEYIKR LLMSQADKMT AEEVDQMFQF ASIDVAGNLD YKALSYVITH GEEKEE.		
Formulation	MYL5 protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 30% glycerol and 0.1M NaCl.		

### 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.

### 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.

### Background

MYL5 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 156 amino acids (1-132 a.a.) and having a molecular mass of

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

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17.4kDa.MYL5 is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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