9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

MYL5 Human

Myosin Light Chain 5 Human Recombinant
RCP1432

Product Overview

Name	MYL5 Human
Description	
Myosin Light Chain 5 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 (pH 8.0) containing 1mM DTT, 30% glycerol and 0.1M NaCl.	
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 MDQNRD GFIDKEDLKD TYASLGKTNV KDDELDAMLK EASGPINFTM FLNLFGEKLS GTDAEETILN AFKMLDPDGK GKINKEYIKR LLMSQADKMT AEEVDQMFQF ASIDVAGNLD	

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Precautions

MYL5 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q02045)