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

MYL9 Mouse

Myosin Light Chain 9 Mouse Recombinant
RCP1437

Product Overview

Name	MYL9 Mouse
Description	
Myosin Light Chain 9 Mouse Recombinant	
Accession (Primary)	Q9CQ19
Synonyms	
Myosin regulatory light polypeptide 9, Myosin regulatory light chain 2, Myosin regulatory light chain 9, Myl9, Myrl2.	
Introduction	
MYL9 is one of the numerous regulatory myosin light chains. Myosin which is a structural component of the muscle consists of 2 heavy chains and 4 light chains. MYL9 is a myosin light chain regulates muscle contraction by modulating the ATPase activity of myosin heads. MYL9 binds calcium and is activated by myosin light chain kinase. Regulatory myosin light chains regulate contraction in smooth muscle and non-muscle cells via phosphorylation by MLCK (myosin light chain kinase). Phosphorylation of regulatory myosin light chains is catalyzed by MLCK in the presence of calcium and calmodulin and it increases the actin-activated myosin ATPase activity, thus regulates the contractile activity.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered clear solution.	
Formulation	
MYL9 protein solution (0.5mg/ml) containing Phosphate buffered saline (pH7.4), 10% glycerol and 1mM DTT.	
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 MSSKRA KAKTTKKRPQ RATSNVFAMF DQSQIQEFKE AFNMIDQNRD GFIDKEDLHD MLASLGKNPT DEYLEGMMNE APGPINFTMF LTMFGEKLNG TDPEDVIRNA FACFDEEASG FIHEDHLREL LTTMGDRFTD EEVDEMYREA PIDKKGNFNY VEFTRILKHG AKDKDD	

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Precautions

MYL9 Mouse is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q9CQ19)