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

MYL6B Human

Myosin Light Chain 6B Human Recombinant
RCP1434

Product Overview

Name	MYL6B Human
Description	
Myosin Light Chain 6B Human Recombinant	
Accession (Primary)	P14649
Synonyms	
Myosin light chain 6B, Myosin light chain 1 slow-twitch muscle A isoform, MLC1sa, Smooth muscle and nonmuscle myosin light chain alkali 6B, MYL6B, MLC1SA.	
Introduction	
Myosin Light Chain 6B (MYL6B) is a heavy chain regulator located in smooth muscle and non-muscle Myosin complexes. Contractile activity in the smooth muscle is regulated by the calcium/calmodulin-dependent phosphorylation of Myosin light chain by Myosin light chain kinase. MYL6B doesn't bind calcium during contraction. MYL6B is mostly found as a hexamer consisting of 4 light chains and 2 heavy chains. MYL6B usually interacts with Myosin Va, an Actin based motor which moves in large steps. MYL6B is expressed in the majority of tissues with neurons, while smooth muscle tissue having the highest expression.	
Source	
E.coli.	
Physical Appearance	
Sterile Filtered colorless solution.	
Formulation	
The MYL6B solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 2mM DTT and 10% glycerol.	
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 95% as determined by SDS-PAGE.	
Amino acid sequence	
MGSSHHHHHH SSGLVPRGSH MGS MPPKKDV PVKKPAGPSI SKPAAKPAAA GAPPAKTKAE PAVPQAPQKT QEPPVDLSKV VIEFNKDQLE EFKEAFELFD RVGDGKILYS QCGDVMRALG QNPTNAEVLK VLGNPKSDEL	

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KSRRVDFETF LPMLQAVAKN RGQGTYEDYL EGFRVFDKEG NGKVMGAELR HVLTTLGEKM TEEEVETVLA GHEDSNGCIN YEAFLKHILS V.

Precautions

MYL6B Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P14649)