

Recombinant Human MYL6B, His-tagged

Cat. No. MYL6B-3623H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human MYL6B protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques (1-208 aa).
Species	Human
Source	Human
Description	MYL6B is a heavy chain regulator found in smooth muscle and non-muscle Myosin complexes. Contractile activity in smooth muscle is regulated by the calcium/calmodulin-dependent phosphorylation of Myosin light chain by Myosin light chain kinase. MYL6B does not bind calcium during contraction. It is primarily found in a hexamer consisting of four light chains and two heavy chains. It most commonly interacts with Myosin Va, an Actin based motor that can move in large steps. MYL6B is expressed in most tissues with neurons and smooth muscle tissue having the highest expression.
Form	Liquid. In 20mM Tris-HCl buffer(pH 8.0) containing 10% glycerol, 2mM DTT
Molecular Weight	25.2 kDa (231aa), confirmed by MALDI-TOF
Purity	> 95 % by SDS - PAGE
Concentration	1 mg/ml (determined by Bradford assay)
Sequences of amino	MGSSHHHHHH SSGLVPRGSH MGSMPPKKDV PVKKPAGPSI SKPAAKPAAA

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acids	GAPPAKTKAE PAVPQAPQKT QEPPVDLSKV VIEFNKDQLE EFKEAFELFD RVGDGKILYS QCGDVMRALG QNPTNAEVLK VLGNPKSDEL KSRRVDFETF LPMLQAVAKN RGQGTIEDYL EGFRVFDKEG NGKVMGAELR HVLTTLGEKM TEEEVETVLA GHEDSNGCIN YEAFLEKILS V
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
Pathways	Muscle contraction; Smooth Muscle Contraction; Vascular smooth muscle contraction
GENE INFORMATION	
Gene Name	MYL6B myosin, light chain 6B, alkali, smooth muscle and non-muscle [Homo sapiens]
Official Symbol	MYL6B
Synonyms	MYL6B; MLC1SA; MLC1sa; myosin, light chain 6B, alkali, smooth muscle and non-muscle; myosin light chain 6B; myosin light chain 1 slow a; myosin alkali light chain 1 slow a; myosin light chain 1 slow-twitch muscle A isoform; myosin light chain 1, slow-twitch muscle A isoform; smooth muscle and nonmuscle myosin light chain alkali 6B; smooth muscle and non-muscle myosin alkali light chain 6B; myosin, light polypeptide 6B, alkali, smooth muscle and non-muscle
Gene ID	140465
mRNA Refseq	NM_001199629
Protein Refseq	NP_001186558
MIM	609930

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UniProt ID	P14649
Chromosome Location	12q13.13
Function	calcium ion binding; motor activity; protein binding; structural constituent of muscle
PDB rendering based on 1oe9.	