Recombinant Human MYL6B, His-tagged

Cat. No. MYL6B-30243TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human MLC1SA with an N terminal His tag; 231 amino acids with the tag; predicted MWt: 25.2 kDa.
Species	Human
Source	E.coli
ProteinLength	208 amino acids
Description	Myosin is a hexameric ATPase cellular motor protein. It is composed of two heavy chains, two nonphosphorylatable alkali light chains, and two phosphorylatable regulatory light chains. This gene encodes a myosin alkali light chain expressed in both slow-twitch skeletal muscle and in nonmuscle tissue. Alternative splicing results in multiple transcript variants.
Conjugation	HIS
Molecular Weight	25.200kDa inclusive of tags
Form	Liquid
Purity	>95% by SDS-PAGE
Storage buffer	pH: 8.00Constituents:10% Glycerol, 0.02% DTT, 0.32% Tris-HCl buffer

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Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHHSSGLVPRGSHMGSMPPKKDVPVKKPAGPSISKPAAKPAAAGAPPAKTKAEPAVPQAPQKTQEPPVDLSKVVIEFNKDQLEEFKEAFELFDRVGDGKILYSQCGDVMRALGQNPTNAEVLKVLGNPKSDELKSRRVDFETFLPMLQAVAKNRGQGTYEDYLEGFRVFDKEGNGKVMGAELRHVLTTLGEKMTEEEVETVLAGHEDSNGCINYEAFLKHILSV
Sequence Similarities	Contains 3 EF-hand domains.

GENE INFORMATION

Gene Name	MYL6B myosin, light chain 6B, alkali, smooth muscle and non-muscle [Homo sapiens]
Official Symbol	MYL6B
Synonyms	MYL6B; myosin, light chain 6B, alkali, smooth muscle and non-muscle; myosin, light polypeptide 6B, alkali, smooth muscle and non muscle; myosin light chain 6B; MLC1SA; myosin light chain 1 slow a;
Gene ID	140465
mRNA Refseq	NM_001199629
Protein Refseq	NP_001186558
MIM	609930

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Uniprot ID	P14649
Chromosome Location	12q13.2
Pathway	Muscle contraction, organism-specific biosystem; Smooth Muscle Contraction, organism-specific biosystem; Vascular smooth muscle contraction, organism-specific biosystem; Vascular smooth muscle contraction, conserved biosystem;
Function	calcium ion binding; motor activity; protein binding; structural constituent of muscle;

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