

## Recombinant Human MYL6 protein, His-tagged

**Cat. No.** MYL6-3446H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human MYL6(1-151aa) fused with His tag at N-terminal was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-151 a.a.
<b>Description</b>	Myosin light polypeptide 6 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 that is expressed in smooth muscle and non-muscle tissues. MYL6 participates in generating the force for cellular movements, thereby playing an important role in overall cellular function.
<b>Form</b>	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol
<b>Molecular Mass</b>	19.1 kDa (171aa) confirmed by MALDI-TOF
<b>AA Sequence</b>	MGSSHHHHHH SSGLVPRGSHLPMLQTVAKN KDQGTYEDYV EGLRVFDKEG NGTVMGAEIR HVLVTLGEKM TEEEVEMLVA GHEDSNGCIN YEELVRMVLN G MCDFTEDQTA EFKEAFQLFD RTGDGKILYS QCGDVMRALG QNPTNAEVLK VLGNPKSDEM NVKVLDFEHF

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<b>Purity</b>	>90% by SDS - PAGE
<b>Storage</b>	Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.
<b>Concentration</b>	0.5 mg/ml (determined by Bradford assay)
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	MYL6 myosin, light chain 6, alkali, smooth muscle and non-muscle [ Homo sapiens ]
<b>Official Symbol</b>	MYL6
<b>Synonyms</b>	MYL6; myosin, light chain 6, alkali, smooth muscle and non-muscle; myosin, light polypeptide 6, alkali, smooth muscle and non muscle; myosin light polypeptide 6; ESMLC; MLC1SM; MLC3NM; myosin light chain A3; 17 kDa myosin light chain; myosin light chain alkali 3; myosin, light polypeptide 6, alkali, smooth muscle and non-muscle; LC17; LC17A; LC17B; MLC-3; MLC3SM; LC17-GI; LC17-NM;
<b>Gene ID</b>	4637
<b>mRNA Refseq</b>	NM_079423
<b>Protein Refseq</b>	NP_524147
<b>MIM</b>	609931
<b>UniProt ID</b>	P60660
<b>Chromosome</b>	12q13.13

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**Location****Pathway**

Axon guidance, organism-specific biosystem; Developmental Biology, organism-specific biosystem; Focal Adhesion, organism-specific biosystem; Muscle contraction, organism-specific biosystem; Sema4D in semaphorin signaling, organism-specific biosystem; Sema4D induced cell migration and growth-cone collapse, organism-specific biosystem; Semaphorin interactions, organism-specific biosystem;

**Function**

actin-dependent ATPase activity; calcium ion binding; motor activity; protein binding; structural constituent of muscle;

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