

Recombinant Human Myosin, Light Chain 4, Alkali; Atrial, Embryonic, His-tagged

Cat. No. MYL4-6857H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human MYL4 protein, fused to His-tag at C-terminus, was expressed in E. coli and purified by using conventional chromatography techniques. MW: 22.6 kDa.
Species	Human
Source	E.coli
ProteinLength	1-197aa
Description	MYL4 is a hexameric ATPase cellular motor protein. MYL4 is composed of two heavy chains, two nonphosphorylatable alkali light chains, and two phosphorylatable regulatory light chains. MYL4 encodes a myosin alkali light chain that is found in embryonic muscle and adult atria. Two alternatively spliced transcript variants encoding the same protein have been found for this gene.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 20% glycerol, 0.15M NaCl.
Molecular Mass	22.6 kDa (205aa), confirmed by MALDI-TOF.
AA Sequence	MAPKKPEPKK EAAKPAPAPA PAPAPAPAPA PEAPKEPAFD PKSVKIDFTA DQIEEFKEAF SLFDRTPTGE MKITYGQCGD VLRALGQNPT NAEVLRVLGK PKPEEMNVKM LDFETFLPIL QHISRNKEQG TYEDFVEGLR VFDKESNGTV MGAELRHVLA TLGEKMTEAE VEQLLAGQED ANGCINYEAF VKHIMSGLEH

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Purity	>90% by SDS - PAGE
Applications	SDS-PAGE
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.
Concentration	0.5 mg/ml (determined by Bradford assay)
GENE INFORMATION	
Gene Name	MYL4 myosin, light chain 4, alkali; atrial, embryonic [Homo sapiens]
Official Symbol	MYL4
Synonyms	MYL4; myosin, light chain 4, alkali; atrial, embryonic; myosin, light polypeptide 4, alkali; atrial, embryonic; myosin light chain 4; ALC1; AMLC; GT1; myosin; atrial/fetal muscle; light chain; PRO1957; myosin light chain alkali GT-1 isoform; myosin, atrial/fetal muscle, light chain; myosin light chain 1, embryonic muscle/atrial isoform; myosin, light polypeptide 4, alkali; atrial, embryonic;
Gene ID	4635
mRNA Refseq	NM_001002841
Protein Refseq	NP_001002841
MIM	160770

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UniProt ID	P12829
Chromosome Location	17q21-qter
Pathway	Muscle contraction, organism-specific biosystem; Myometrial Relaxation and Contraction Pathways, organism-specific biosystem; Striated Muscle Contraction, organism-specific biosystem; Striated Muscle Contraction, organism-specific biosystem;
Function	actin filament binding; actin monomer binding; calcium ion binding; myosin II heavy chain binding; structural constituent of muscle;

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