

Recombinant Human MYL4, His-tagged

Cat. No. MYL4-4751H **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.
Species	Human
Source	Human
Description	Myosin, light chain 4, also known as MYL4, is a hexameric ATPase cellular motor protein. Myosin 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 Weight	22.6 kDa (205aa), confirmed by MALDI-TOF
Purity	> 90% by SDS - PAGE
Concentration	0.5 mg/ml (determined by Bradford assay)
Sequences of amino acids	MAPKKPEPKK EAAKPAPAPA PAPAPAPAPA PEAPKEPAFD PKSVKIDFTA DQIEEFKEAF SLFDRTPTGE MKITYGQCGD VLRALGQNPT NAEVLRVLGK

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PKPEEMNVKM LDFETFLPIL QHISRNKEQG TYEDFVEGLR VFDKESNGTV
MGAELRHVLA TLGEKMTEAE VEQLLAGQED ANGCINYEAF VKHIMSGLEH
HHHHH

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; Myometrial Relaxation and Contraction Pathways; Striated Muscle Contraction

GENE INFORMATION

Gene Name

MYL4 myosin, light chain 4, alkali; atrial, embryonic [Homo sapiens]

Official Symbol

MYL4

Synonyms

MYL4; GT1; ALC1; AMLC; PRO1957; MLC1; myosin, light chain 4, alkali; atrial, embryonic; myosin light chain 4; 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

UniProt ID

P12829

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Chromosome Location	17q21-qter
Function	actin filament binding; actin monomer binding; calcium ion binding; myosin II heavy chain binding; structural constituent of muscle

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