

Recombinant Human Myosin, Light Chain 5, Regulatory, His-tagged

Cat. No. MYL5-6875H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human MYL5 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography. MW: 22.1 kDa.
Species	Human
Source	E.coli
ProteinLength	1-173aa
Description	MYL5 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. MYL5 is a regulatory light chain and is expressed in fetal muscle and in adult retina, cerebellum, and basal ganglia.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol 0.1M NaCl, 1mM DTT, 0.1mM PMSF.
Molecular Mass	22.1 kDa (197aa), confirmed by MALDI-TOF.
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSHTMASRKT KKKEGGALRA QRASSNVFSN FEQTQIQEFK EAFTLMDQNR DGFIDKEDLK DTYASLGKTN VKDDELDAML KEASGPINF T MFLNLFGEKL SGTDAAETIL NAFKMLDPDG KGKINKEYIK RLLMSQADKM TAAEVDQMFQ FASIDVAGNL DYKALSYVIT HGEEKEE

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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	MYL5 myosin, light chain 5, regulatory [Homo sapiens]
Official Symbol	MYL5
Synonyms	MYL5; myosin, light chain 5, regulatory; myosin, light polypeptide 5, regulatory; myosin light chain 5; MYLC2; myLC-2; myosin regulatory light chain 5; superfast myosin regulatory light chain 2;
Gene ID	4636
mRNA Refseq	NM_002477
Protein Refseq	NP_002468
MIM	160782
UniProt ID	Q02045
Chromosome Location	4p16

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Pathway

Focal adhesion, organism-specific biosystem; Focal adhesion, conserved biosystem; Leukocyte transendothelial migration, organism-specific biosystem; Leukocyte transendothelial migration, conserved biosystem; Regulation of actin cytoskeleton, organism-specific biosystem; Regulation of actin cytoskeleton, conserved biosystem; Tight junction, organism-specific biosystem;

Function

calcium ion binding; structural constituent of muscle;

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