Recombinant Human MYL9, His-tagged

Cat. No. MYL9-30270TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human MYL9 with an N terminal His tag ; predicted mwt: 21.9kDa;
Species	Human
Source	E.coli
ProteinLength	172 amino acids
Description	Myosin, a structural component of muscle, consists of two heavy chains and four light chains. The protein encoded by this gene is a myosin light chain that may regulate muscle contraction by modulating the ATPase activity of myosin heads. The encoded protein binds calcium and is activated by myosin light chain kinase. Two transcript variants encoding different isoforms have been found for this gene.
Conjugation	HIS
Molecular Weight	21.900kDa
Tissue specificity	Smooth muscle tissues and in some, but not all, nonmuscle cells.
Form	Liquid
Purity	>90% by SDS-PAGE

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Storage buffer	Preservative: NoneConstituents: 10% Glycerol, 20mM Tris HCl, 100mM Sodium chloride, 1mM DTT, pH 8
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	MGSSHHHHHH SSGLVPRGSH MSSKRAKAKT TKKRPQRATS NVFAMFDQSQ IQEFKEAFNM IDQNRDGFID KEDLHDMLAS LGKNPTDEYLEGMMSEAPGP INFTMFLTMF GEKLNGTDPE DVIRNAFACF DEEASGFIHE DHLRELLTTM GDRFTDEEVD EMYREAPIDK KGNFNYVEFTRILKHGAKDK DD
Sequence Similarities	Contains 3 EF-hand domains.

GENE INFORMATION

Gene Name	MYL9 myosin, light chain 9, regulatory [Homo sapiens]
Official Symbol	MYL9
Synonyms	MYL9; myosin, light chain 9, regulatory; myosin, light polypeptide 9, regulatory; myosin regulatory light polypeptide 9; LC20; MLC2; MRLC1; myosin regulatory light chain 1; myosin regulatory light chain 2; smooth muscle isoform; MYRL2;
Gene ID	10398
mRNA Refseq	NM_006097
Protein Refseq	NP_006088
MIM	609905

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Uniprot ID	P24844
Chromosome Location	20q11.23
Pathway	Axon guidance, organism-specific biosystem; Developmental Biology, organism-specific biosystem; Focal adhesion, organism-specific biosystem; Focal adhesion, conserved biosystem; Leukocyte transendothelial migration, organism-specific biosystem;
Function	calcium ion binding; structural constituent of muscle;

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