

Recombinant Mouse Myl9, His-tagged

Cat. No. Myl9-57M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse Myl9 was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Mouse
Source	E.coli
Description	Myl9 also known as myosin regulatory light polypeptide 9 is one of the numerous regulatory myosin light chains. Regulatory myosin light chains regulate contraction in smooth muscle and non-muscle cells via phosphorylation by myosin light chain kinase (MLCK). Phosphorylation of regulatory myosin light chains is catalyzed by MLCK in the presence of calcium and calmodulin and it increases the actin-activated myosin ATPase activity, thereby regulates the contractile activity.
Form	Liquid. In Phosphate buffered saline (pH7.4) containing 10% glycerol, 1mM DTT
Molecular Mass	22.4Da (196aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSHMSSKRA KAKTTKKRPQ RATSNVFAMF DQSQIQEFKE AFNMIDQNRD GFIDKEDLHD MLASLGKNPT DEYLEGMMNE APGPINFMTF LTMFGEKLNQ TDPEDVIRNA FACFDEEASG FIHEDHLREL LTTMGDRFTD EEVDEMYREA PIDKKGNFNY VEFTRILKHG AKDKDD
Purity	>90% by SDS - PAGE

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Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
Concentration	0.5mg/ml (determined by Bradford assay)
GENE INFORMATION	
Gene Name	Myl9 myosin, light polypeptide 9, regulatory [Mus musculus]
Official Symbol	Myl9
Synonyms	MYL9; myosin, light polypeptide 9, regulatory; myosin regulatory light polypeptide 9; myosin regulatory light chain 9; myosin light chain, regulatory C; myosin regulatory light chain 2, smooth muscle isoform; MLC20; RLC-C; Mylc2c; AI327049;
Gene ID	98932
mRNA Refseq	NM_172118
Protein Refseq	NP_742116
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; Leukocyte transendothelial migration, conserved biosystem; Muscle contraction, organism-specific biosystem;
Function	calcium ion binding;