

Recombinant Human Myosin Light Chain Kinase, GST-tagged

Cat. No. MYLK-696H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant humanMYLK catalytic domain (amino acids 1428-1771), GST-tagged.
Species	Human
Source	Insect Cells
ProteinLength	1428-1771 a.a.
Description	MYLK is a serine/threonine kinase thatphosphorylates myosin regulatory light chains to assist in the production ofcontractile activity (myosin-actin interaction). No special measures weretaken to activate this kinase.
Form	Liquid in 50 mMTris, pH 7.5 + 150 mM NaCl + 0.5 mM EDTA + 0.02% Triton X-100 + 2 mM DTT +50% glycerol.
Molecular Weight	67.3 kDa
storage	Stablefor 6 months in working aliquots at -80°C. Avoidrepeated freeze-thaw cycles.
OfficialSymbol	MYLK
Pathways	Calcium signaling pathway;Focal adhesion; Regulation of actin cytoskeleton; Vascular smooth musclecontraction

GENE INFORMATION

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Gene Name	MYLK myosin light chain kinase [Homo sapiens]
Synonyms	MYLK; myosin light chainkinase; KRP; MLCK; MLCK1; MYLK1; smMLCK; MLCK108; MLCK210; MSTP083; FLJ12216;DKFZp686I10125; OTTHUMP00000180642; myosin, light polypeptide kinase; smoothmuscle myosin light chain kinase; EC 2.7.11.18; OTTHUMP00000180643; Telokin;smMLCK; Kinase-related protein; Myosin light chain kinase, smooth muscle
Gene ID	4638
mRNA Refseq	NM_053025
Protein Refseq	NP_444253
MIM	600922
UniProt ID	Q15746
Chromosome Location	3q21
Function	ATP binding; actin binding;calcium ion binding; calmodulin binding; magnesium ion binding; myosin lightchain kinase activity; nucleotide binding; transferase activity
PDBrendering based on 2cqv.	

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