

# Recombinant Human Myosin Light Chain Kinase, GST-tagged

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

## SPECIFICATION

<b>Product Overview</b>	Recombinant humanMYLK catalytic domain (amino acids 1428-1771), GST-tagged.
<b>Species</b>	Human
<b>Source</b>	Insect Cells
<b>ProteinLength</b>	1428-1771 a.a.
<b>Description</b>	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.
<b>Form</b>	Liquid in 50 mMTris, pH 7.5 + 150 mM NaCl + 0.5 mM EDTA + 0.02% Triton X-100 + 2 mM DTT +50% glycerol.
<b>Molecular Weight</b>	67.3 kDa
<b>storage</b>	Stablefor 6 months in working aliquots at -80°C. Avoidrepeated freeze-thaw cycles.
<b>OfficialSymbol</b>	MYLK
<b>Pathways</b>	Calcium signaling pathway;Focal adhesion; Regulation of actin cytoskeleton; Vascular smooth musclecontraction

## GENE INFORMATION

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<b>Gene Name</b>	MYLK myosin light chain kinase [Homo sapiens ]
<b>Synonyms</b>	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
<b>Gene ID</b>	4638
<b>mRNA Refseq</b>	NM_053025
<b>Protein Refseq</b>	NP_444253
<b>MIM</b>	600922
<b>UniProt ID</b>	Q15746
<b>Chromosome Location</b>	3q21
<b>Function</b>	ATP binding; actin binding;calcium ion binding; calmodulin binding; magnesium ion binding; myosin lightchain kinase activity; nucleotide binding; transferase activity
<b>PDBrendering based on 2cqv.</b>	

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