

## Recombinant Human MLCK (N-GST tag)

Cat No:HR2R1751

For research use only

### Overview

Quantity	10 ?g
Gene Symbol	MLCK
Gene ID	N/A
Accession	NM_053025
Alternative Name	MYLK, KRP, MLCK108, MLCK210, MSTP083, FLJ12216, DKFZp686I10125
Species	Human
Source	Insect cells
Description	?MLCK or myosin light chain kinase is a muscle member of the immunoglobulin gene superfamily and is a calcium/calmodulin dependent protein kinase. MLCK is a regulatory protein for smooth muscle contraction, which acts by phosphorylating 20-kDa myosin light chain (MLC20) to activate the myosin ATPase activity. The kinase activity for the phosphorylation is localized at the central part of MLCK, which is also furnished with actin-binding activity at its N terminal and myosin-binding activity at its C terminal . Phosphorylation of regulatory light chain of myosin plays an important role in controlling the morphological changes seen during cell division .?
Functions	The specific activity of MLCK was determined to be 200 nmol/min/mg as per activity assay protocol.
Formulation	50mM Tris-HCl, pH 7.5, 150mM NaCl, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, 25% glycerol.
Solubility	N/A
Appearance	Liquid
Molecular Weight	70
Purity	70% - 90%
Concentration	
Shipping Condition	Dry Ice
Storage Condition	Store product at ?70?C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.