

Recombinant Human MYLK3 (N-GST tag)

Cat No:HR2R1773

For research use only

Overview

Quantity	10 ?g
Gene Symbol	MYLK3
Gene ID	N/A
Accession	BC109097
Alternative Name	caMLCK; MLCK, MLCK2, MGC126319, MGC126320
Species	Human
Source	Insect cells
Description	MYLK3 (or myosin light chain kinase 3) plays a key role in rate of cross-bridge recruitment in cardiac myocytes. MYLK3 is upregulated in failing human myocardia and expression of MYLK3 correlates with the pulmonary arterial pressure of patients with heart failure . Knockdown of MYLK3 with small interfering RNAs in cultured rat cardiomyocytes decreases Myl2 phosphorylation and impairs epinephrine-induced activation of sarcomere reassembly . Recombinant murine MYLK3 shows specificity for Myl2 (Mlc2v) and the phosphorylation is calcium- and calmodulin-dependent.
Functions	The specific activity of MYLK3 was determined to be 9 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	135
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.