

MYLK3 recombinant protein

MYLK3, Active

CATALOG # AAA73732	HOST Sf9 insect cells	APPLICATIONS Western Blot
------------------------------	---------------------------------	-------------------------------------

PRODUCT SYNONYMS

MYLK3; Active; caMLCK; MLCK; MLCK2; MGC126319; MGC126320; MYLK3 recombinant protein

PRODUCT SPECIFICATIONS

Host	Sf9 insect cells
Form/Format	Recombinant protein stored in 50mM Tris-HCl, pH7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol
Applicable Applications for MYLK3 recombinant protein	WB (Western Blot), Kinase Assay
Tag	GST
Species	Human
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree 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.

IMAGES



SDS-PAGE

Purity: Sample Purity Data. For specific information on a given lot, see related technical data sheet.



Activity

Specific Activity: Sample Kinase Activity Plot. For specific information on a given lot, see related technical data sheet.

ADDITIONAL INFORMATION

Related Product Information for MYLK3 recombinant protein	Recombinant full-length human MYLK3 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. The gene accession number is BC109097. 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 (1). Knockdown of MYLK3 with small interfering RNAs in cultured rat cardiomyocytes decreases Myl2 phosphorylation and impairs epinephrine-induced activation of sarcomere reassembly (2). Recombinant murine MYLK3 shows specificity for Myl2 (Mlc2v) and the phosphorylation is calcium- and calmodulin-dependent.
Product Categories/Family for MYLK3 recombinant protein	Protein Kinases; Cardiovascular Disease; PKA/PKC Pathway; Ser/Thr Kinases
References	1. Chan, J. Y. et al: Identification of cardiac-specific myosin light chain kinase. Circ. Res. 2008; 102: 571-580. 2. Seguchi, O. et al: A cardiac myosin light chain kinase regulates sarcomere assembly in the vertebrate heart. J. Clin. Invest. 2007; 117: 2812-2824

NCBI AND UNIPROT INFORMATION

NCBI GI #	80478928
NCBI GeneID	91807
Molecular Weight	52,723 Da
NCBI Official Full Name	Homo sapiens myosin light chain kinase 3, mRNA
NCBI Official Synonym Full Names	myosin light chain kinase 3
NCBI Official Symbol	MYLK3
NCBI Official Synonym Symbols	MLCK; MLCK2; caMLCK
NCBI Protein Information	myosin light chain kinase 3

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/mylk3-recombinant-protein-sf9-insect-cells-wb-western-blot-kinase-assay/73732>