

## MYLK

### Recombinant Human MYLK2 Active GST-His

<b>Catalog No.</b>	CRM026	<b>Quantity:</b>	50 µg
<b>Alternate Names:</b>	KRP, MLCK, MLCK1, MLCK108, MLCK210, MSTP083, MYLK1, smMLCK, myosin, light polypeptide kinase, smooth muscle myosin light chain kinase		
<b>Description:</b>	Human MYLK2, full length, amino acids A <sub>1</sub> -V <sub>596</sub> (as in GenBank entry NM_033118.2)*, N-terminally fused to GSTHIS <sub>6</sub> -Thrombin cleavage site, expressed in Sf9 insect cells <b>*Sequence may contain documented polymorphism.  Detailed sequence on request.</b>		
<b>Concentration:</b>	0.154 µg/µl		
<b>Gene ID:</b>	4593		
<b>Protein Accession No:</b>	NM_033118.2		
<b>Source:</b>	Baculovirus infected Sf9 cells		
<b>Molecular Weight:</b>	Theoretical MW <sub>Fusion Protein</sub> : 95,209 Da		
<b>Formulation:</b>	50 mM Tris-HCl + pH 8.0 + 100 mM NaCl + 5 mM DTT + 4 mM reduced glutathione, 20% glycerol		
<b>Purification:</b>	One-step affinity purification using GSH-agarose		
<b>Product Identity:</b>	MYLK2 was confirmed as MYLK2 by mass spectroscopy LC-ESIMS/MS		
<b>Specific Activity:</b>	Specific activity: 1180 pmol/µg×min		
	Method for determination of K <sub>m</sub> value and specific activity: • Assay conditions: 60 mM HEPES-NaOH, pH 7.5 3 mM MgCl <sub>2</sub> 3 mM MnCl <sub>2</sub> 500 µM CaCl <sub>2</sub> 0.1 µM Calmodulin 3 µM Na-orthovanadate 1.2 mM DTT 2.5 µg / 50 µl PEG <sub>20,000</sub> ATP (variable) Substrate: MLC-derived peptide (KKRPQRATSNVFS), 8 µg / 50 µl MYLK2: 200 ng / 50 µl		

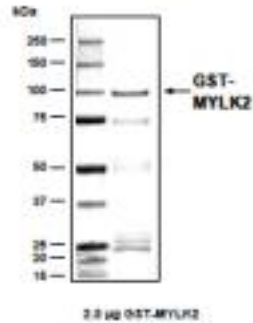


- Filter binding assay  
MSPH membrane (Millipore)

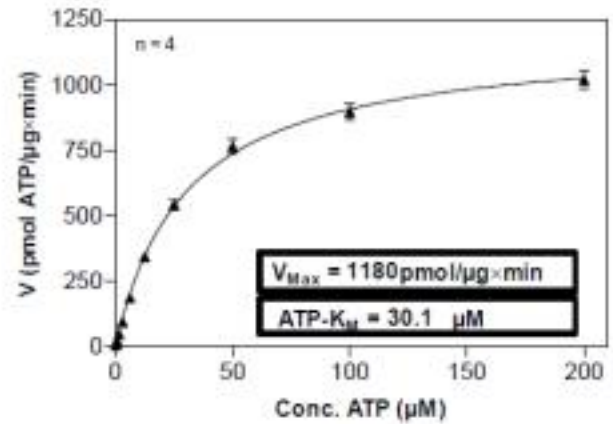
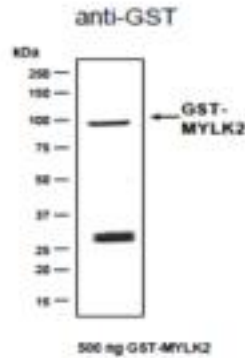
**Storage & Stability:** Store in working aliquots at  $-80^{\circ}\text{C}$ . **Avoid repeated freeze-thaw cycles.**

Determination of  $K_m$  value for ATP:

Coomassie stain:



Western blot analysis:



NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

