

Recombinant Human MYLK3 protein, His & T7-tagged

Cat. No. MYLK3-8033H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human MYLK3 aa. (Glu555~Ser786 (Accession # Q32MK0)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Glu555~Ser786
Description	Phosphorylation of cardiac myosin heavy chains (see MYH7B, MIM 609928) and light chains (see MYL2, MIM 160781) by a kinase, such as MYLK3, potentiates the force and rate of cross-bridge recruitment in cardiac myocytes (Chan et al., 2008 [PubMed 18202317]).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 30.4kDa
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>95%
Characteristic	The isoelectric point is 6.
Applications	SDS-PAGE; WB; ELISA; IP

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Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage Buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	MYLK3 myosin light chain kinase 3 [Homo sapiens (human)]
Official Symbol	MYLK3
Synonyms	MYLK3; myosin light chain kinase 3; MLCK; MLCK2; caMLCK; myosin light chain kinase 3; MLC kinase; cardiac-MLCK; cardiac-MyBP-C associated Ca/CaM kinase; putative myosin light chain kinase 3
Gene ID	91807
mRNA Refseq	NM_001308301.1
Protein Refseq	NP_001295230.1
UniProt ID	Q32MK0

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SDS-PAGE

