

# Recombinant Human MYLK Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** MYLK-4858H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	MYLK MS Standard C13 and N15-labeled recombinant protein (NP_444259) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	<p>This gene, a muscle member of the immunoglobulin gene superfamily, encodes myosin light chain kinase which is a calcium/calmodulin dependent enzyme. This kinase phosphorylates myosin regulatory light chains to facilitate myosin interaction with actin filaments to produce contractile activity. This gene encodes both smooth muscle and nonmuscle isoforms. In addition, using a separate promoter in an intron in the 3' region, it encodes telokin, a small protein identical in sequence to the C-terminus of myosin light chain kinase, that is independently expressed in smooth muscle and functions to stabilize unphosphorylated myosin filaments. A pseudogene is located on the p arm of chromosome 3. Four transcript variants that produce four isoforms of the calcium/calmodulin dependent enzyme have been identified as well as two transcripts that produce two isoforms of telokin. Additional variants have been identified but lack full length transcripts.</p>
<b>Molecular Mass</b>	16.7 kDa
<b>AA Sequence</b>	MAMISGLSGRKSSTGSPTSPLNAEKLESEEDVVSQAFLEAVAEKPHVKPYFSKTIRD

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LEVVEGSAARFDCKIEGYDPDEVVWFKDDQSIRESRHFQIDYDEDGNCSLIISDVCG  
 DDDAKYTCKAVNSLGEATCTAELIVETMEEGEGEGEEEEETRTRPLEQKLISEEDLA  
 ANDILDYKDDDDKV

**Purity** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Stability** Stable for 3 months from receipt of products under proper storage and handling conditions.

**Storage** Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

**Concentration** 50 µg/mL as determined by BCA

**Storage Buffer** 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

## GENE INFORMATION

**Gene Name** MYLK myosin light chain kinase [ [Homo sapiens \(human\)](#) ]

**Official Symbol** [MYLK](#)

**Synonyms** MYLK; myosin light chain kinase; myosin, light polypeptide kinase; myosin light chain kinase, smooth muscle; MLCK; MLCK1; MYLK1; smMLCK; smooth muscle myosin light chain kinase; telokin; kinase-related protein; KRP; AAT7; MLCK108; MLCK210; MSTP083; FLJ12216; DKFZp686l10125;

**Gene ID** [4638](#)

**mRNA Refseq** [NM\\_053031](#)

**Protein Refseq** [NP\\_444259](#)

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MIM 600922

UniProt ID Q15746

SDS-PAGE



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