

Recombinant Human MYLK Protein, GST-tagged

Cat. No. MYLK-5820H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human MYLK full-length ORF (ENSP00000355024, 1 a.a. - 992 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
Description	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. [provided by RefSeq]
Molecular Mass	136.6 kDa
AA Sequence	MDFRANLQRQVKPKTVSEEERKVHSPQQVDFRSVLAKKGTSTKTPVPEKVPVPPKPKPAT PDFRSVLGGKKKLPAENGSSSAETLNAKAVESSKPLSNAQPSGPLKPVGNAPKPAET

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LKPMGNAKPAETLKPMGNAKPDENLKSASKEELKKDVKNVNCGRGHAGTTDNEK
 RSESQGTAPAFKQKLQDVHVAEGKLLQLQCQVSSDPPATIIWTLNGKTLKTTKFIILS
 QEGSLCSVSIEKALPEDRGLYKCVAKNDAGQAECSCQVTVDDAPASENTKAPEMKS
 RRPKSSLPPVLGTESDATVKKKPAPKTPPKAAMPPQIIQFPEDQKVRAGESVELFGK
 VTGTQPITCTWMKFRKQIQESEHMKVENSENGSKLTLAARQEHCGCYTLLVENKLG
 SRQAQVNLTVDKPDPPAGTPCASDIRSSSLTSLWYGSSYDGGSAVQSYSIEIWDS
 ANKTWKELATCRSTSFNVQDLLPDHEYKFRVRRAINVYGTSEPSQESELTTVGEKPEE
 PKDEVEVSDDDEKEPEVDYRTVTINTEQKVSDFYDIEERLGSGKFGQVFRLEVEKTR
 KVVAGKFFKAYSAAKEKENIRQEISIMNCLHHPKLVQCVDAAFEKANIVMVLEIVSGGE
 LFERIIDEDFELTERECIKYMRQISEGVEYIHKQGIVHLDLKPENIMCVNKTGTRIKLIDF
 GLARRLENAGSLKVLFGTPEFVAPEVINYEPIGYATDMWSIGVICYILVSGLSPFMGD
 NDNETLANVTSATWDFDDEAFDEISDDAKDFISNLLKKDMKNRLDCTQCLQHPWLM
 KDTKNMEAKKLSKDRMKKYMARRKWQKTGNVRAIGRLSSMAMISGLSGRKSSTG
 SPTSPLNAEKLESEEDVSQAFLEAVAEKPHVKPYFSKTIRDLEVEGSAARFDCKIE
 GYPDPEVVWFKDDQSIRESRHFQIDYDEDGNCSLIISDVCGDDDAKYTCKAVNSLGE
 ATCTAELIVETMEEGEGEGEEEE

Applications

Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

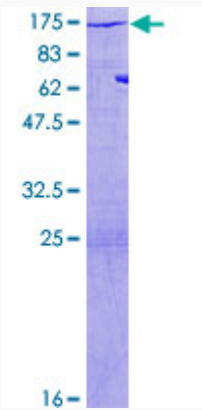
50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

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Gene Name	MYLK myosin light chain kinase [Homo sapiens]
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; DKFZp686I10125;
Gene ID	4638
mRNA Refseq	NM_053025
Protein Refseq	NP_444253
MIM	600922
UniProt ID	Q15746
Quality Control Testing:	 12.5% SDS-PAGE Stained with Coomassie Blue.