

MYL9, 1-172aa, Human, His tag, E.coli

Cat.NO.: TP03069

3th Edition

Synonyms:Myosin regulatory light polypeptide 9, LC20, MGC3505, MLC2, MRLC1, MYRL2

Description:MYL9, also known as MLC2, is one of the numerous regulatory myosin light chains. Regulatory myosin light chains regulate contraction in smooth muscle and non-muscle cells via phosphorylation by myosin light chain kinase(MLCK). Phosphorylation of regulatory myosin light chains is catalyzed by MLCK in the presence of calcium and calmodulin and it increases the actin-activated myosin ATPase activity, thereby regulates the contractile activity.

Form:Liquid. In 20 mM Tris-HCl buffer (pH8.0) containing 0.1M NaCl, 1mM DTT, 10% glycerol

Molecular Weight:21.9 kDa (192aa) confirmed by MALDI-TOF

Sequences:

MGSSHHHHHHSSGLVPRGSHMSSKRAKAKTTKKRPQRATSNVFMFDQSQIQEFKEAFNMIDQNRDGFIDKEDLH
DMLASLGKNPTDEYLEGMMSEAPGPINFTMFLTMFGEKLNKGTDPEDVIRNAFACFDEEASGFIHEDHLRELLTTMG
DRFTDEEVDEMYREAPIDKKGNFNVEFTRILKHGAKDKDD

Purity:> 95% by HPLC

Concentration:0.5 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.