
Product Data Sheet

Product Name: MYL12B Human

Cat. No.: GP23983

Batch No.: 1

Product Data

Purity >98%

Source E.coli.

Physical Appearance solid

Shipping Condition Shipped with Ice Packs.

Synonyms Myosin light chain 12B regulatory; Myosin regulatory light chain 2-B smooth muscle isoform; Myosin regulatory light chain 20 kDa; Myosin regulatory light chain MRLC2; MYLC2B; MRLC2; MLC-2A; MLC-B; SHUJUN-1 MLC20.

Amino Acid Sequence MGSSHHHHHH SGLVPRGSH MGSHMSSKKA KTKTTKRPQ RATSNVFAMF DQSQIQEFKE AFNMIDQNRD GFIDKEDLHD MLASLGKNPT DAYLDAMMNE APGPINFTMF LTMFGEKLNQ TDPEDVIRNA FACFDEEATG TIQEDYLREL LTTMGDRFTD EEVDLYREA PIDKKGNFNY IEFTRILKHG AKDKDD

Formulation The MYL12B solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 200mM NaCl, 2mM DTT and 40% glycerol.

Introduction

Myosin is composed of 2 nonphosphorylatable alkali light chains, 2 heavy chains and 2 phosphorylatable regulatory light chains. MYL12B is a hexameric ATPase cellular motor protein which controls contraction in smooth muscle and non-muscle cells through phosphorylation by myosin light chain kinase (MLCK). Phosphorylation of myosin regulatory light chains catalyzed by MLCK in the presence of calcium and calmodulin, rises Actin-activated myosin ATPase activity, thus regulating contractile activity.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

MYL12B Human Recombinant produced in E. coli is a single polypeptide chain containing

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196 amino acids (1-172) and having a molecular mass of 22.3kDa. MYL12B is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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