

## 32-4262: Recombinant Human Myosin Light Chain 12B

**Alternative Name :** 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.

### Description

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

### Product Info

**Amount :** 20 µg  
**Purification :** Greater than 90% as determined by SDS-PAGE.  
**Content :** The MYL12B solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 200mM NaCl, 2mM DTT and 40% glycerol.  
**Storage condition :** 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.  
**Amino Acid :** MGSSHHHHHH SGLVPRGSH MGS HMSSKKA KTKTKKRPQ RATS NVFAMF DQS QIQEFKE  
AFNMIDQNRD GFIDKEDLHD MLASLGKNPT DAYLDAMMNE APGPINFTMF LTMFGEKLNQ TDPEDVIRNA  
FACFDEEATG TIQEDYLREL LTTMGDRFTD EEVDELYREA PIDKKGNFNY IEFTRILKHG AKDKDD

