

**MYL2,1-166 aa, Human, His-tagged, Recombinant, E.coli**

**Cat.NO.: TP03062**

3th Edition

**Synonyms:**Myosin, light chain 2, MLC2, CMH10, DKFZp779C0562

**Description:**Myosin, light chain 2 (MYL2) encodes the regulatory light chain associated with cardiac myosin beta heavy chain. It is an important protein involved in the regulation of myosin ATPase activity in smooth muscle and Ca<sup>+</sup> triggers the phosphorylation of regulatory light chain that in turn triggers contraction. Mutations in MYL2 are associated with mid-left ventricular chamber type hypertrophic cardiomyopathy.

**Form:**Liquid in 20mM Tris-HCl (pH 8.0) containing 40% glycerol, 5mM CaCl<sub>2</sub>

**Molecular Weight:**20.9 kDa (186aa), confirmed by MALDI-TOF.

**Sequences:**

**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.