

**MYL5, 1-173aa, Human, His tag, E.coli**

**Cat.NO.: TP03065**

3th Edition

**Synonyms:**Myosin light chain 5 Isoform1.

**Description:**Myosin regulatory light chain 5, also known as MYL5, is a hexameric ATPase cellular motor protein. Myosin is composed of two heavy chains, two nonphosphorylatable alkali light chains, and two phosphorylatable regulatory light chains. MYL5 is a regulatory light chain and is expressed in fetal muscle and in adult retina, cerebellum, and basal ganglia. Reconstitution of myosin with regulatory light chain 5 or alkali light chain increases filament velocity to intermediate rates, and readdition of both classes of light chains fully restores the original sliding velocity.

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

**Molecular Weight:**22.1 kDa(197aa), confirmed by MALDI-TOF

**Sequences:**

MGSSHHHHHSSGLVPRGSHMGSHMASRKTKKKEGGALRAQRASSNVFSNFEQTQIQEFKEAFTLMDQNRDGF  
DKEDLKDTYASLGKTNVKDDELDAMLKEASGPINFTMFLNLFGEKLSGTDAAETILNAFKMLDPDGKGINKEYIKRL  
LMSQADKMTAAEVDQMFQFASIDVAGNLDYKALSIVITHGEEKEE

**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.