

**PPP1R14A, 1-147aa, Human, His-tagged, Recombinant, E.coli**

**Cat.NO.: TP03502**

3th Edition

**Synonyms:**Protein phosphatase 1, regulatory (inhibitor) subunit 14A, CPI-17, CPI17, PPP1INL.

**Description:**PPP1R14A (Protein phosphatase 1 regulatory subunit 14A) is a phosphorylation-dependent inhibitory protein for smooth muscle myosin phosphate. Myosin phosphatase can reverse MYL (myosin light chain) phosphorylation to induce a state of relaxation. However, during agonist-induced contraction at constant Ca<sup>2+</sup> concurrent inhibition of myosin phosphatase leads to increases in MYL phosphorylation and tension.

**Form:**Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 1 mM DTT 2 mM EDTA, 10% glycerol

**Molecular Weight:**18 kDa (167 aa), confirmed by MALDI-TOF

**Sequences:**

MGSSHHHHHHSSGLVPRGSHMAAQLGKRVLSKLQSPSRARGPGGSPGGLQKRHARVTVKYDRRELQRRLDVE  
KWIDGRLEELYRGMEADMPDEINIDELLELESEEERSRKIQGLLKSCGKPVEDFIQELLAKLQGLHRQPGLRQPSPS  
HDGSLSPQLDRARTAHP

**Purity:**> 95% by HPLC

**Concentration:**1 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.