

Recombinant Human Protein Phosphatase 1 Regulatory Subunit 14A/PPP1R14A Protein(C-6His)

Cat.NO.: TP05452

3th Edition

Synonyms:Protein Phosphatase 1 Regulatory Subunit 14A; 17 kDa PKC-Potentiated Inhibitory Protein of PP1; Protein Kinase C-Potentiated Inhibitor Protein of 17 kDa; CPI-17; PPP1R14A; CPI17; PPP1INL

Description:Protein Phosphatase 1 Regulatory Subunit 14A (PPP1R14A) belongs to the PP1 inhibitor family. PPP1R14A is mapped to chromosome 19q13.13-q13.2. PPP1R14A binds directly to protein kinase C and casein kinase I. Meantime, PPP1R14A is a phosphorylation-dependent inhibitor of smooth muscle myosin phosphatase. PPP1R14A is the inhibitor of PPP1CA. When phosphorylated, PPP1R14A has over 1000-fold higher inhibitory activity, creating a molecular switch for regulating the phosphorylation status of PPP1CA substrates and smooth muscle contraction. In addition, inhibition of PPP1R14A also enhances contraction of smooth muscle in the absence of increment of intracellular Ca²⁺ concentration.

Form:PBS

Molecular Weight:17.8 kDa

Sequences:Met 1-Pro147

Purity:> 95% by HPLC

Concentration:

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.