

Recombinant Human Protein Phosphatase 1, Regulatory (Inhibitor) Subunit 14A, His-tagged

Cat. No. PPP1R14A-110H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant His tagged PPP1R14A was expressed in E.coli and purified by using conventional chromatography techniques (167 aa, 18 kDa).
Species	Human
Source	E.coli
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 ²⁺ concurrent inhibition of myosin phosphatase leads to increases in MYL phosphorylation and tension. These calcium-independent increases in myosin phosphorylation and tension are termed calcium sensitization.
Formulation	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).
Purity	> 95% by SDS – PAGE.
Concentration	1 mg/ml (determined by Bradford assay).

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Sequence	MGSSHHHHHH SSGLVPRGSH MAAQRLGKRV LSKLQSPSRA RGPGGSPGGL QKRHARVTVK YDRRELQRR L DVEKWIDGRL EELYRGMEAD MPDEINIDEL LELESEEERS RKIQGLLKSC GKPVEDFIQE LLAKLQGLHR QPGLRQPSPS HDGSLSP LQD RARTAHP
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.
GENE INFORMATION	
Gene Name	PPP1R14A
Synonyms	PPP1R14A; protein phosphatase 1, regulatory (inhibitor) subunit 14A; CPI17; CPI-17; PPP1INL; 17 kDa PKC-potentiated inhibitory protein of PP1; PPP1R14A protein phosphatase 1, regulatory (inhibitor) subunit 14A; 17-KDa protein; 17-kDa PKC-potentiated inhibitory protein of PP1; PKC-potentiated inhibitory protein of PP1.
Gene ID	94274
mRNA Refseq	NM_033256.1
Protein Refseq	NP_150281.1
MIM	608153
UniProt ID	Q96A00
Chromosome Location	19q13.1
Function	phosphoprotein phosphatase inhibitor activity; protein binding.

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