

## PPP1R14A Protein, Human (His)

<b>Cat. No.:</b>	HY-P71229
<b>Synonyms:</b>	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
<b>Species:</b>	Human
<b>Source:</b>	E. coli
<b>Accession:</b>	Q96A00 (M1-P147)
<b>Gene ID:</b>	94274
<b>Molecular Weight:</b>	23-26 kDa

### PROPERTIES

<b>AA Sequence</b>	<p>           M A A Q R L G K R V    L S K L Q S P S R A    R G P G G S P G G L    Q K R H A R V T V K            Y D R R E L Q R R L    D V E K W I D G R L    E E L Y R G M E A D    M P D E I N I D E L            L E L E S E E E R S    R K I Q G L L K S C    G K P V E D F I Q E    L L A K L Q G L H R            Q P G L R Q P S P S    H D G S L S P L Q D    R A R T A H P         </p>
<b>Biological Activity</b>	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
<b>Appearance</b>	Solution.
<b>Formulation</b>	Supplied as a 0.2 µm filtered solution of 20 mM Tris-HCl, 0.2 mM EDTA, 1 mM DTT, 10% Glycerol, pH 8.0.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	N/A
<b>Storage &amp; Stability</b>	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
<b>Shipping</b>	Shipping with dry ice.

### DESCRIPTION

<b>Background</b>	<p>PPP1R14A, a pivotal player in cellular regulation, serves as a potent inhibitor of PPP1CA. Its inhibitory prowess takes center stage, showcasing over a thousand-fold increase in activity when phosphorylated. This phosphorylation-induced augmentation transforms PPP1R14A into a molecular switch, a dynamic regulator adept at modulating the phosphorylation status of PPP1CA substrates. In the intricate dance of cellular signaling, PPP1R14A emerges as a key orchestrator, particularly influential in the realm of smooth muscle contraction. This multifaceted role positions PPP1R14A as a critical element in the intricate machinery governing cellular processes and adds a layer of nuanced control to the dynamic landscape of cellular signaling.</p>
-------------------	--

---

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA