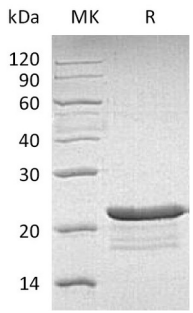
Product Name: Recombinant Human PPP1R14A (C-6His)
Catalog #: PEH1388

Summary

Name	Protein phosphatase 1 regulatory subunit 14A/CPI-17
Purity	Greater than 95% as determined by reducing SDS-PAGE
Endotoxin level	<1 EU/μg as determined by LAL test.
Construction	Recombinant Human Protein Phosphatase 1 Regulatory Subunit 14A is produced by our E.coli expression system and the target gene encoding Met1-Pro147 is expressed with a 6His tag at the C-terminus.
Accession #	Q96A00
Host	E.coli
Species	Human
Predicted Molecular Mass	17.76 KDa
Formulation	Supplied as a 0.2 μm filtered solution of 20mM Tris-HCl, 0.2mM EDTA, 1mM DTT, 10% Glycerol, pH 8.0.
Shipping	The product is shipped on dry ice/polar packs. Upon receipt, store it immediately at the temperature listed below.
Stability&Storage	Store at ≤-70°C, stable for 6 months after receipt. Store at ≤-70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles.
Reconstitution	

SDS-PAGE image



Background

Alternative Names	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
Background	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.

Note

For Research Use Only , Not for Diagnostic Use.