

[Go to Product page](#)

Datasheet for ABIN7318959 CPI-17 Protein (His tag)

Overview

Quantity:	50 µg
Target:	CPI-17 (PPP1R14A)
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CPI-17 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human PPP1R14A Protein (His Tag)
Sequence:	Met 1-Pro147
Characteristics:	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.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	CPI-17 (PPP1R14A)
Alternative Name:	PPP1R14A (PPP1R14A Products)
Background:	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

Target Details

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.

Synonym: 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

Molecular Weight:	17.8 kDa
-------------------	----------

UniProt:	Q96A00
----------	------------------------

Application Details

Restrictions:	For Research Use only
---------------	-----------------------

Handling

Format:	Frozen, Liquid
---------	----------------

Buffer:	Supplied as a 0.2 µm filtered solution of 20 mM TrisHCl, 0.2 mM EDTA, 1 mM DTT, 10 % Glycerol, pH 8.0.
---------	--

Storage:	-20 °C
----------	--------

Storage Comment:	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
------------------	--