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Recombinant Human PPP1R14A Protein (His Tag)

Catalog No. PKSH032967

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

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

SpeciesHumanExpression HostE.coli

SequenceMet 1-Pro147AccessionQ96A00Calculated Molecular Weight17.8 kDaObserved molecular weight23-26 kDaTagC-His

Bioactivity Not validated for activity

Properties

Purity > 95 % as determined by reducing SDS-PAGE.

Endotoxin < 1.0 EU per µg of the protein as determined by the LAL method.

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

Shipping This product is provided as liquid. It is shipped at frozen temperature with blue

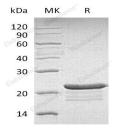
ice/gel packs. Upon receipt, store it immediately at < - 20°C.

Formulation Supplied as a 0.2 μm filtered solution of 20mM Tris-HCl, 0.2mM EDTA, 1mM

DTT, 10% Glycerol, pH 8.0.

Reconstitution Not Applicable

Data



> 95 % as determined by reducing SDS-PAGE.

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

For Research Use Only

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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.

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