A Reliable Research Partner in Life Science and Medicine

Recombinant Human PPP1R14A Protein (His Tag)

Catalog Number: PKSH032967

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

Description

Species Human

Source E.coli-derived Human PPP1R14A protein Met 1-Pro147, with an C-terminal His

 Mol_Mass
 17.8 kDa

 Accession
 Q96A00

Bio-activity Not validated for activity

Properties

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

Endotoxin $\leq 1.0 \text{ EU per } \mu \text{g of the protein as determined by the LAL method.}$

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

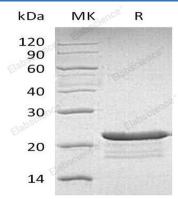
packs. Upon receipt, store it immediately at < - 20°C.

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 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.

For Research Use Only

Fax: 1-832-243-6017