



Recombinant Protein Technical Manual

Recombinant Human PPP1R1A Protein (His Tag)

RPES3285

Product Data:

Product SKU: RPES3285

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: Q13522

Protein Information:

Molecular Mass: 20.0 kDa

AP Molecular Mass: 18 kDa

Tag: C-6His

Bio-activity:

Purity: > 90 % as determined by reducing SDS-PAGE.

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

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 TrisHCl, 150mM NaCl, 1mM DTT, 50% Glycerol, pH 8.5.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Protein Phosphatase 1 Regulatory Subunit 1A; Protein Phosphatase Inhibitor 1; I; IPP; PPP1R1A; IPP1

Immunogen Information:

Sequence: Met 1-Val171

Background:

Protein Phosphatase 1 Regulatory Subunit 1A (PPP1R1A) is an inhibitor of protein-phosphatase 1. PPP1R1A is a cellular regulator of eIF2 alpha phosphorylation. In hormonal control of glycogen metabolism, IPP protein plays important function. Hormones can elevate intracellular cAMP level and elevate IPP activity. PPP1R1A activation caused cAMP increase , cAMP control over proteins that are not directly phosphorylated by PKA following a rise in intracellular calcium. IPP is inactivated by calcineurin (PP2B). Multiple domains in IPP target cellular PP1 complexes.