

## PPP1R1A Human

**Description:** PPP1R1A Human Recombinant fused with His tag at C-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 179 amino acids and having a molecular mass of 20 kDa. The PPP1R1A is purified by proprietary chromatographic techniques.

**Catalog #:** ENPS-373

For research use only.

**Synonyms:** IPP1, IPP-1, I-1, PPP1R1A, PPI-1, Protein Phosphatase Inhibitor-1, Protein phosphatase 1 regulatory subunit 1A.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile Filtered colorless solution.

**Amino Acid Sequence:** MEQDNSPRKI QFTVPLLEPH LDPEAAEQIR RRRPTPATLV  
LTSDQSSPEI DEDRIPNPHL KSTLAMSPRQ RKKMTRITPT MKELQMMVEH HLGQQQQGEE  
PEGAAESTGT QESRPPGIPD TEVESRLGTS GTAKKTAECI PKTHERGSKE PSTKEPSTHI  
PPLDSKGANS VLEHHHHHH.

**Purity:** Greater than 90.0% as determined by (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

**Formulation:**

The PPP1R1A solution contains 50mM Tris pH-8, 0.1mM PMSF, 1mM EDTA, 1mM DTT & 10% glycerol.

**Stability:**

PPP1R1A although stable 4°C for 4 weeks, should be stored desiccated below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Introduction:**

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

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