



## Product Datasheet

<b>Product Name</b>	Protein Phosphatase Inhibitor-1 Human Recombinant
<b>Cata No</b>	CB501375
<b>Source</b>	<i>Escherichia Coli</i> .
<b>Synonyms</b>	IPP1, IPP-1, I-1, PPP1R1A, PPI-1, Protein Phosphatase Inhibitor-1, Protein phosphatase 1 regulatory subunit 1A.

### Description

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. 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.

### Physical Appearance

Sterile Filtered colorless solution.

### 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.**

### Sequence

MEQDNSPRKI QFTVPLLEPH LDPEAAEQIR  
RRRPTPATLV LTSDQSSPEI DEDRIPNPHL  
KSTLAMSPRQ RKKMTRITPT MKELQMMVEH  
HLGQQQQGEE PEGAAESTGT QESRPPGIPD  
TEVESRLGTS GTAKKTAECI PKTHERGSKE  
PSTKEPSTHI PPLDSKGANS VLEHHHHHH