

# Recombinant Human Protein Phosphatase 1, Regulatory (Inhibitor) Subunit 1A, His-tagged

**Cat. No.** PPP1R1A-341H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Full Length human IPP-1, fused to His-tag at C-terminus, was expressed in E.coli and purified by using conventional chromatography techniques (179 aa, 20 kDa).
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-171 a.a.
<b>Description</b>	Protein phosphatase inhibitor-1(IPP-1) plays an important role in the regulation of glycogen metabolism through inhibition of type-1 protein serine/threonine phosphatase(PP1) activity, and it has been implicated in the regulation of cell growth. IPP-1 activation may impose cAMP control over proteins that are not directly phosphorylated by PKA. In the presence of calcium, PPI-1 is inactivated by calcineurin (or PP2B).
<b>Formulation</b>	Liquid. In 50 mM Tris-HCl buffer (pH 8.0) containing 1 mM DTT, 1 mM EDTA, 0.1 mM PMSF, 10% glycerol.
<b>Molecular Weight</b>	20 kDa (179 aa).
<b>Purity</b>	> 90% by SDS – PAGE.

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<b>Concentration</b>	1 mg/ml (determined by Bradford assay).
<b>Sequence</b>	MEQDNSPRKI QFTVPLLEPH LDPEAAEQIR RRRPTPATLV LTSDQSSPEI DED RIPNPHL KSTLAMSPRQ RKKMTRITPT MKELQMMVEH HLGQQQQGEE PEGAAESTGT QESRPPGIPD TEVESRLGTS GTAKKTAECI PKTHERGSKE PSTKEPSTHI PPLDSKGANS VLEHHHHHHH
<b>Storage</b>	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

## GENE INFORMATION

<b>Gene Name</b>	PPP1R1A
<b>Synonyms</b>	PPP1R1A; protein phosphatase 1, regulatory (inhibitor) subunit 1A; PPP1R1A protein phosphatase 1, regulatory (inhibitor) subunit 1A; I-1; IPP-1; IPP1; inhibitor-1; protein phosphatase inhibitor-1; Protein phosphatase inhibitor 1.
<b>Gene ID</b>	5502
<b>mRNA Refseq</b>	NM_006741.3
<b>Protein Refseq</b>	NP_006732.3
<b>UniProt ID</b>	Q13522
<b>Chromosome Location</b>	15q15.1-q15.2
<b>Pathway</b>	Long-term potentiation.

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**Function**

protein binding; protein serine/threonine phosphatase inhibitor activity.

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