

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

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

SPECIFICATION

Product Overview	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).
Species	Human
Source	E.coli
ProteinLength	1-171 a.a.
Description	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).
Formulation	Liquid. In 50 mM Tris-HCl buffer (pH 8.0) containing 1 mM DTT, 1 mM EDTA, 0.1 mM PMSF, 10% glycerol.
Molecular Weight	20 kDa (179 aa).
Purity	> 90% by SDS – PAGE.

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Concentration	1 mg/ml (determined by Bradford assay).
Sequence	MEQDNSPRKI QFTVPLLEPH LDPEAAEQIR RRRPTPATLV LTSDQSSPEI DEDRI PNPHL KSTLAMSPRQ RKKMTRITPT MKELQMMVEH HLGQQQQGEE PEGAAESTGT QESRPPGIPD TEVESRLGTS GTAKKTAECI PKTHERGSKE PSTKEPSTHI PPLDSKGANS VLEHHHHHHH
Storage	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	
Gene Name	PPP1R1A
Synonyms	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.
Gene ID	5502
mRNA Refseq	NM_006741.3
Protein Refseq	NP_006732.3
UniProt ID	Q13522
Chromosome Location	15q15.1-q15.2
Pathway	Long-term potentiation.

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Function

protein binding; protein serine/threonine phosphatase inhibitor activity.

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