

# Recombinant human IPP-1/PPP1R1A protein

Catalog Number: IPP0801

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-171aa

### UniProt No.

Q13522

### NCBI Accession No.

NP\_006732

### Alternative Names

Protein phosphatase inhibitor-1, Protein phosphatase inhibitor, Protein phosphatase inhibitor-1 Protein phosphatase inhibitor 1, I 1, I1, Inhibitor 1, IPP 1, IPP1, PPP1R1A, Protein phosphatase 1 regulatory (inhibitor) subunit 1A, Protein phosphatase 1 regulatory subunit 1A.

## PRODUCT SPECIFICATION

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### Molecular Weight

20kDa (179aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 50mM Tris-HCl buffer (pH 8.0) containing 0.1mM PMSF, 1mM EDTA, 1mM DTT, 10% glycerol

### Purity

> 90% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### 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). Recombinant

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human IPP-1, fused to His-tag at C-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

### Amino acid Sequence

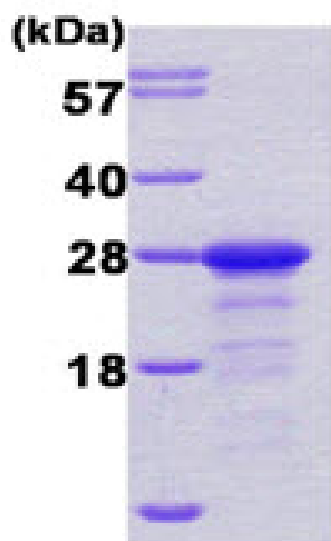
MEQDNSPRKI QFTVPLLEPH LDPEAAEQIR RRRPTPATLV LTSDQSSPEI DEDRIPNPHL KSTLAMSPRQ RKKMTRITPT  
MKELQMMVEH HLGQQQQGEE PEGAAESTGT QESRPPGIPD TEVESRLGTS GTAKKTAECI PKTHERGSKE PSTKEPSTHI  
PPLDSKGANS VLEHHHHHHH

### General References

Weiser DC., et al. (2004), J. Biol. Chem. 279(47):48904-14  
Rodriguez P., et al. (2006), J. Biol. Chem. 281(50):38599-608

## DATA

### SDS-PAGE



15% SDS-PAGE (3 $\mu$ g)

3 $\mu$ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.