

# Recombinant human PP1 gamma/PPP1CC protein

Catalog Number: ATGP3561

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-323aa

### UniProt No.

P36873

### NCBI Accession No.

NP\_002701

### Alternative Names

Serine/threonine-protein phosphatase PP1-gamma catalytic subunit, PP1gamma, PPP1G, PP-1G, Protein phosphatase 1 catalytic subunit gamma, PP1C, Protein phosphatase 1C catalytic subunit

## PRODUCT SPECIFICATION

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### Molecular Weight

39.1 kDa (343aa) confirmed by MALDI-TOF

### Concentration

0.25mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 50% glycerol, 0.2M NaCl, 2mM DTT

### Purity

> 85% by SDS-PAGE

### Biological Activity

Specific activity is > 700unit/mg, and is defined as the amount of enzyme that hydrolyze 1.0nmole of p-nitrophenyl phosphate (pNPP) per minute at pH 7.5 at 37C.

### Tag

His-Tag

### Application

SDS-PAGE, Enzyme Activity

### 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

PPP1CC, also known as serine/threonine-protein phosphatase PP1-gamma catalytic subunit, is essential for cell division, and participates in the regulation of glycogen metabolism, muscle contractility and protein synthesis.

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This protein is involved in regulation of ionic conductances and long-term synaptic plasticity and may play an important role in dephosphorylating substrates such as the postsynaptic density-associated Ca<sup>2+</sup>/calmodulin dependent protein kinase II. Recombinant human PPP1CC protein, fused to His-tag at N-terminus, was expressed in *E. coli* and purified by using conventional chromatography.

## Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH> MADLDKLNID SIIQRLLEVR GSKPGKNVQL QENEIRGLCL KSREIFLSQP ILLELEAPLK ICGDIHGQYY DLLRLFYGG FPESNYLFL GDYVDRGKQS LETICLLLAY KIKYPENFFL LRGNHECASI NRIYGFYDEC KRRYNIKLWK TFTDCFNCLP IAAIVDEKIF CCHGGLSPDL QSMEQIRRM RPTDVDPDQGL LCDLLWSDPD KDVLGWGEND RGVSTFTGAE VVAKFLHKHD LDLICRAHQV VEDGYEFFAK RQLVTLFSAP NYCGEFDNAG AMMSVDETLM CSFQILKPAE KKKPNATRVPV TPRGMITKQ AKK

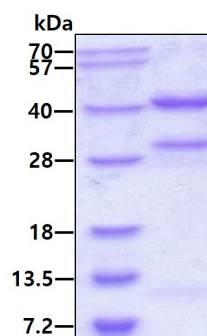
## General References

Egloff M.-P., et al. (1995) *J. Mol. Biol.* 254:942-959

Choudhary C., et al. (2009) *Science.* 325:834-840

## DATA

### SDS-PAGE



3µg by SDS-PAGE under reducing condition and visualized by coomassie blue stain