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## Product Data Sheet

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Product Name: PPP1CC Human, Active  
 Cat. No.: GP22141  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Protein phosphatase 1 catalytic subunit gamma isozyme/isoform; Protein phosphatase 1C catalytic subunit; serine/threonine phosphatase 1 gamma; serine/threonine-protein phosphatase PP1-gamma catalytic subunit; PP1gamma; PPP1G; EC 3.1.3.16.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MADLDKLNID SIIQRLLLEVR GSKPGKINVQL QENEIRGLCL KSREIFLSQP ILLELEAPLK ICGDIHGQYY DLLRLFYGG FPPESNYFLF GDYVDRGKQS LETICLLLAY KIKYPENFFL LRGNHECASI NRIYGFYDEC KRRYNIKLWK TFTDCFNCLP IAAIVDEKIF CCHGGLSPDL QSMEQIRRM RPTDVPDQGL LCDLLWSDPD KDVLGWGEND RGVSTFTGAE VVAKFLHKHD LDLICRAHQV VEDGYEFFAK RQLVTLFSAP NYCGEFDNAG AMMSVDETLM CSFQILKPAE KKKPNATRPV TPPRGMITKQ AKK.		
Formulation	The PPP1CC protein solution (0.25mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 0.2M NaCl, 2mM DTT and 50% glycerol.		

### Introduction

PPP1CC is vital for cell division and takes part in the regulation of protein synthesis, muscle contractility and glycogen metabolism. Additionally, PPP1CC has a role in long-term synaptic plasticity and regulation of ionic conductance, and has a significant role in dephosphorylating substrates such as the postsynaptic density-associated Ca<sup>2+</sup>/calmodulin dependent protein kinase II.

### Biological Activity

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

### Stability

**Caution: Product has not been fully validated for medical applications. For research use only.**

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

PPP1CC produced in E.Coli is a single, non-glycosylated polypeptide chain containing 343 amino acids (1-323a.a.) and having a molecular mass of 39.1kDa. PPP1CC is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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