

## PPP1CC Protein, Human, Recombinant (His)

### General Information

Synonyms:	PP-1G;Serine/Threonine-Protein Phosphatase PP1-Gamma Catalytic Subunit;Protein Phosphatase 1C Catalytic Subunit;PPP1CC;Serine/Threonine-Protein Phosphatase PP1-γ Catalytic Subunit
Protein Construction:	Met1-Lys323
Species:	Human
Expression Host:	E. coli
Accession:	P36873
Molecular Weight:	30-40 KDa (reducing condition)
AA Sequence:	Met1-Lys323

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 85% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Supplied as a 0.2 μm filtered solution of 20 mM Tris-HCl, 1 mM DTT, pH 8.0.

### Preparation and Storage

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

Proteins are shipped with blue ice.

### Protein Background

Serine/Threonine-Protein Phosphatase PP1-γ Catalytic Subunit (PPP1CC) is a member of the PPP phosphatase family. It is essential for cell division, participates in the regulation of glycogen metabolism, muscle contractility and protein synthesis. PPP1CC colocalizes with SPZ1 in the nucleus, with URI1 at mitochondrion, Rapidly exchanges between the nucleolar, nucleoplasmic and cytoplasmic compartments. As a cofactor, PPP1CC binds one iron ion and one manganese ion per subunit.. In addition, PPP1CC may play an important role in dephosphorylating substrates such as the postsynaptic density-associated Ca<sup>2+</sup>/calmodulin dependent protein kinase II.

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