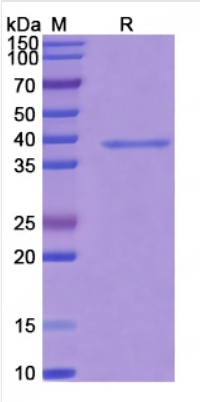
PPP1CC Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	PPP1CC, Recombinant Protein
Full Product Name	Recombinant Human PPP1CC Protein, N-His
Product Gene Name	PPP1CC recombinant protein
Product Synonym Names	Serine/threonine-protein phosphatase PP1-gamma catalytic subunit; PP-1G; Protein phosphatase 1C catalytic subunit; PPP1CC
Host	E coli
Form/Format	Lyophilized from a solution in PBS pH7.4, 0.02% NLS, 1mM EDTA, 4% Trehalose, 1% Mannitol.
Purity/Purification	>90% as determined by SDS-PAGE
Preparation and Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 degree C for one week. Store at -20 to -80 degree C for twelve months from the date of receipt.
Molecular Weight	323
Sequence Positions	Met1-Lys323
OMIM	176914
3D Structure	ModBase 3D Structure for P36873
Species	Human
Reconstitution	Reconstitute in sterile water for a stock solution.
Product Categories/Family for PPP1CC recombinant protein	Recombinant Proteins
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for PPP1CC recombinant protein	SDS-PAGE (SDS), Western Blot (WB), ELISA (EIA), Immunogen
Related Product Information for PPP1CC recombinant protein	MBS1577286 is a recombinant protein targeting PPP1CC. Also known as Recombinant Human PPP1CC Protein, N-His. Host: E coli.
Other Notes	Small volumes of PPP1CC recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



SDS-Page of PPP1CC recombinant protein
SDS PAGE for Recombinant Human PPP1CC Protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PPP1CC. It may not necessarily be applicable to this product.

NCBI GI #	548573
NCBI GeneID	5501
NCBI Accession #	P36873.1
UniProt Primary Accession #	P36873
UniProt Related Accession #	P36873
NCBI Official Full Name	Serine/threonine-protein phosphatase PP1-gamma catalytic subunit
NCBI Official Synonym Full Names	protein phosphatase 1, catalytic subunit, gamma isozyme
NCBI Official Symbol	PPP1CC
NCBI Official Synonym Symbols	PP1C; PP-1G; PPP1G
UniProt Protein Name	Serine/threonine-protein phosphatase PP1-gamma catalytic subunit
UniProt Synonym Protein Names	Protein phosphatase 1C catalytic subunit
Protein Family	Serine/threonine-protein phosphatase
UniProt Gene Name	PPP1CC
UniProt Synonym Gene Names	PP-1G
UniProt Entry Name	PP1G_HUMAN
NCBI Protein Information	serine/threonine-protein phosphatase PP1-gamma catalytic subunit; serine/threonine phosphatase 1 gamma; protein phosphatase 1C catalytic subunit; protein phosphatase 1, catalytic subunit, gamma isoform
NCBI Summary for PPP1CC	The protein encoded by this gene belongs to the protein phosphatase family, PP1 subfamily. PP1 is an ubiquitous serine/threonine phosphatase that regulates many cellular processes, including cell division. It is expressed in mammalian cells as three closely related isoforms, alpha, beta/delta and gamma, which have distinct localization patterns. This gene encodes the gamma isozyme. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2011]

UniProt Comments for PPP1CC	PPP1CC: is a catalytic subunit of protein phosphatase 1 (PP1), a ubiquitous cytosolic serine-threonine phosphatase. Composed a catalytic subunit (PPP1CA, PPP1CB or PPP1CC) which is folded into its native form by inhibitor 2 and glycogen synthetase kinase 3, and then complexed to one or several targeting (or regulatory) subunits: PPP1R12A and PPP1R12B mediate binding to myosin; PPP1R3A, PPP1R3B, PPP1R3C and PPP1R3D mediate binding to glycogen; and PPP1R15A and PPP1R15B mediate binding to EIF2S1. PP1 is essential for cell division, plays critical roles in many cellular processes including glycogen metabolism, muscle contractility and protein synthesis, and is involved in the regulation of ionic conductances and long-term synaptic plasticity. Inhibits the synthesis of proteins involved in synaptic plasticity. Binds to the transcription factor cyclic AMP-dependent response element binding (CREB) and dephosphorylates it. May regulate chromatin condensation through regulation of histone H3 phosphorylation. Differentially expressed in gastric cancer. May participate in the neurodegenerative progress in Alzheimer's disease. Down-regulated in lung squamous cell carcinoma. Protein type: EC 3.1.3.16; Motility/polarity/chemotaxis; Protein phosphatase, Ser/Thr (non-receptor); Nucleolus Chromosomal Location of Human Ortholog: 12q24.1-q24.2 Cellular Component: focal adhesion; protein complex; mitochondrion; cytoplasm; nucleolus; nuclear speck; midbody; cytosol; nucleus; cleavage furrow Molecular Function: protein binding; metal ion binding; phosphoric monoester hydrolase activity; protein serine/threonine phosphatase activity; phosphoprotein phosphatase activity; protein kinase binding Biological Process: glycogen metabolic process; cell division; transforming growth factor beta receptor signaling pathway; triacylglycerol catabolic process; mitotic cell cycle; circadian regulation of gene expression; regulation of circadian rhythm; protein amino acid dephosphorylation; negative regulation of transforming growth factor beta receptor signaling pathway; entrainment of circadian clock by photoperiod
Research Articles on PPP1CC	**1.** Although no obvious defects in the progression of mitosis were observed, the timing of dephosphorylation of the mutant Ki67 in anaphase was delayed, indicating that Ki67 itself is one of the substrates of PP1gamma-Ki67.
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