Active Recombinant Human PPP1CC, His-tagged

Cat. No. PPP1CC-844H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length human PPP1CC protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.
Species	Human
Source	E.coli
ProteinLength	1-323aa
Description	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
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 50% glycerol, 0.2M NaCl, 2mM DTT
Bio-activity	Specific activity is > 1200 unit/mg Enzymatic activity was confirmed by measuring the amount of enzyme hydrolyzing 1 nmole of p-nitrophenyl phosphate (pNPP) per minute at 37C, pH7.5 using 10mM of substrate.
Molecular Mass	39.1 kDa (343aa), confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MADLDKLNID SIIQRLLEVR GSKPGKNVQL

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	QENEIRGLCL KSREIFLSQP ILLELEAPLK ICGDIHGQYYDLLRLFEYGG FPPESNYLFL GDYVDRGKQS LETICLLLAY KIKYPENFFL LRGNHECASI NRIYGFYDEC KRRYNIKLWK TFTDCFNCLPIAAIVDEKIF CCHGGLSPDL QSMEQIRRIM RPTDVPDQGL LCDLLWSDPD KDVLGWGEND RGVSFTFGAE VVAKFLHKHD LDLICRAHQVVEDGYEFFAK RQLVTLFSAP NYCGEFDNAG AMMSVDETLM CSFQILKPAE KKKPNATRPV TPPRGMITKQ AKK
Purity	> 85% by SDS - PAGE
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
Concentration	0.25 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name	PPP1CC protein phosphatase 1, catalytic subunit, gamma isozyme [Homo sapiens]
Official Symbol	PPP1CC
Synonyms	PPP1CC; protein phosphatase 1, catalytic subunit, gamma isozyme; PPP1G; PP1gamma; erine/threonine-protein phosphatase PP1-gamma catalytic subunit; PP-1G; serine/threonine phosphatase 1 gamma; protein phosphatase 1C catalytic subunit; protein phosphatase 1, catalytic subunit, gamma isoform; EC 3.1.3.16
Gene ID	5501
mRNA Refseq	NM_002710
Protein Refseq	NP_002701

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MIM	176914
UniProt ID	P36873
Chromosome Location	12q24.1-q24.2
Pathway	Focal adhesion; Insulin signaling pathway; Long-term potentiation; Oocyte meiosis; Regulation of actin cytoskeleton; Vascular smooth muscle contraction
Function	hydrolase activity; metal ion binding; protein binding; protein kinase binding; protein serine/threonine phosphatase activity

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