Recombinant Full Length Human PPP1CA, His-tagged

Cat. No. PPP1CA-1015H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human PPP1CA protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography (1-330 aa).
Species	Human
Source	E.coli
ProteinLength	1-330 a.a.
Description	PPP1CA, also known as serine/threonine-protein phosphatase PP1-alpha catalytic subunit, is essential for cell division, and participates in the regulation of glycogen metabolism, muscle contractility and protein synthesis. This protein may play an important role in dephosphorylating substrates such as the postsynaptic density-associated Ca2+/calmodulin dependent protein kinase II.
Form	Liquid. 50mM Tris-HCl buffer (pH8.0) containing 40% glycerol, 0.15M NaCl, 1mM DTT, 0.1mM PMSF, 1mM MnCl2
Molecular Weight	39.7 kDa (350aa), confirmed by MALDI-TOF
Purity	> 80% by SDS - PAGE
Concentration	0.25 mg/ml (determined by Bradford assay)
Sequences of amino	MGSSHHHHHH SSGLVPRGSH MSDSEKLNLD SIIGRLLEVQ GSRPGKNVQL

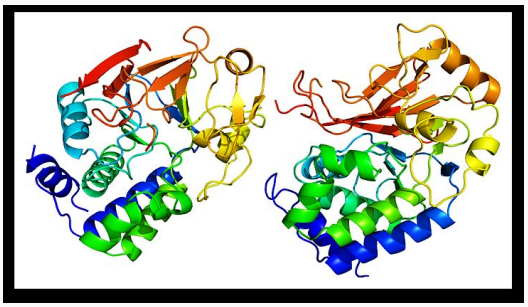
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acids	TENEIRGLCL KSREIFLSQP ILLELEAPLK ICGDIHGQYY DLLRLFEYGG FPPESNYLFL GDYVDRGKQS LETICLLLAY KIKYPENFFL LRGNHECASI NRIYGFYDEC KRRYNIKLWK TFTDCFNCLP IAAIVDEKIF CCHGGLSPDL QSMEQIRRIM RPTDVPDQGL LCDLLWSDPD KDVQGWGEND RGVSFTFGAE VVAKFLHKHD LDLICRAHQV VEDGYEFFAK RQLVTLFSAP NYCGEFDNAG AMMSVDETLM CSFQILKPAD KNKGKYGQFS GLNPGGRPIT PPRNSAKAKK
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.
Pathways	ALK1 signaling events; BMP receptor signaling; DARPP-32 events; Focal adhesion; Insulin signaling pathway; Lipid digestion, mobilization, and transport; Long-term potentiation; Metabolism of lipids and lipoproteins; Oocyte meiosis; Opioid Signalling; Regulation of actin cytoskeleton

GENE INFORMATION

Gene Name	PPP1CA protein phosphatase 1, catalytic subunit, alpha isozyme [Homo sapiens]
Official Symbol	PPP1CA
Synonyms	PPP1CA; PP-1A; PPP1A; MGC1674; MGC15877; PP1alpha; protein phosphatase 1, catalytic subunit, alpha isozyme; serine/threonine-protein phosphatase PP1-alpha catalytic subunit; OTTHUMP00000236398; OTTHUMP00000236399; OTTHUMP00000236400; OTTHUMP00000236401; protein phosphatase 1, catalytic subunit, alpha isoform; serine/threonine protein phosphatase PP1-alpha 1 catalytic subunit; EC 3.1.3.16
Gene ID	5499
mRNA Refseq	NM_001008709

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Protein Refseq	NP_001008709
MIM	176875
UniProt ID	P62136
Chromosome Location	11q13
Function	hydrolase activity; metal ion binding; protein binding; protein phosphatase type 1 regulator activity; protein serine/threonine phosphatase activity
PDB rendering based on 1fjm.	

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