

## Protein Phosphatase 1, Catalytic Subunit Alpha Human Recombinant

<b>Item Number</b>	rAP-1521
<b>Synonyms</b>	Serine/threonine-protein phosphatase PP1-alpha catalytic subunit, PP-1A, PPP1CA, PPP1A, PP1alpha.
<b>Description</b>	PPP1CA Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 350 amino acids (1-330 a.a) and having a molecular mass of 39.7kDa. PPP1CA is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.
<b>Uniprot Accession Number</b>	P62136
<b>Amino Acid Sequence</b>	MGSSHHHHHH SSGLVPRGSH MSDSEKLNLD SIIGRLLEVQ GSRPGKNVQL TENEIRGLCL KSREIFLSQP ILLELEAPLK ICGDIHGQYY DLLRLFYGG FPESNYLFL GDYVDRGKQS LETICLLLAY KIKYPENFFL LRGNHECASI NRIYGFYDEC KRRYNIKLVK TFTDCFNCLP IAAIVDEKIF CCHGGLSPDL QSMEQIRRM RPTDVPDQGL LCDLLWSDPD KDVQGWGEND RGVSFTEGAE VVAKFLHKHD LDLICRA- HQQ VEDGYEFFAK RQLVTLFSAP NYCGEFDNAG AMMSVDETLM CSFQILKPAD KKNKGKYGQFS GLNPGGRPIT PPRNSAKAKK.
<b>Source</b>	Escherichia Coli.
<b>Physical Appearance and Stability</b>	Sterile filtered yellowish solution. 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.
<b>Formulation and Purity</b>	PPP1CA protein solution (0.2mg/ml) containing 50mM Tris-HCl (pH8.5), 0.2M NaCl, 1mM DTT, 0.1mM PMSF, 1mM MnCl <sub>2</sub> and 50% glycerol. Greater than 80.0% as determined by SDS-PAGE.
<b>Application</b>	
<b>Solubility</b>	
<b>Biological Activity</b>	Specific activity: >3,000 units/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.
<b>Shipping Format and Condition</b>	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**