

Human Recombinant PPP1CA

CATALOG #:	6370-10	10 µg
ALTERNATE NAMES:	Serine/threonine-protein phosphatase PP1-alpha catalytic subunit, PP-1A, PP1alpha, PPP1A.	
SOURCE:	E.Coli	
PURITY:	> 80% by SDS - PAGE	
MOL. WEIGHT:	39.7 kDa (350 aa, 1-330 aa + NT His-Tag)	
FORMULATION:	0.25 mg/ml solution in 50 mM Tris-HCl buffer (pH 8.0) containing 40% glycerol, 1 mM DTT, 0.15 M NaCl, 1 mM MnCl ₂ and 0.1 mM PMSF.	

STORAGE CONDITIONS:

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.

DESCRIPTION:

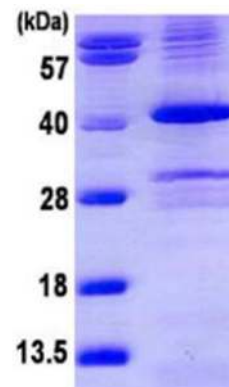
Serine/Threonine-protein phosphatase PP1-alpha catalytic subunit (PPP1CA) is crucial for cell division, and participates in the regulation of glycogen metabolism, muscle contractility and protein synthesis. The PPP1CA protein may have a significant role in dephosphorylating substrates such as the postsynaptic density-associated Ca²⁺/calmodulin dependent protein kinase II.

AMINO ACID SEQUENCE:

MGSSHHHHH SSGLVPRGSH MSDSEKLNLD SIIGRLLEVQ GSRPGKNVQL TENEIRGLCL
KSREIFLSQP ILLELEAPLK ICGDIHQYY DLLRLFYGG FPPESNYFLF GDYVDRGKQS
LETICLLLAY KIKYPENFFL LRGNHECASI NRIYGFYDEC KRRYNIKLWK TFTDCFNCLP
IAAIVDEKIF CCHGGLSPDL QSMEQIRRM RPTDVPDQGL LCDLLWSDPD KDVQGWGEND
RGVSFTFGAE VVAKFLHKHD LDLICRAHQV VEDGYEFFAK RQLVTLFSAP NYCGEFDNAG
AMMSVDETLM CSFQILKPAD KNKGKYQFS GLNPGGRPIT PPRNSAKAKK

BIOLOGICAL ACTIVITY:

Specific Activity: >3,000 units/mg. One unit will hydrolyze 1 nmole of p-nitrophenylphosphatate (pNPP) per minute at 37°C, pH 7.5 using 10 mM of substrate.



15% SDS-PAGE (3µg)

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RELATED PRODUCTS:

- bpV (phen) (Cat. No. 1793-5)
- bpV (pic) (Cat. No. 1794-5)
- PTP1B Antibody (Cat. No. 3171-100)
- PTP1B Antibody (Cat. No. 3174-100)
- Nodularin (Cat. No. 2994-50)
- PTPRD Antibody (NT) (Cat. No. 5313-100)
- PTP1B Antibody (Clone 107AT531) (Cat. No. 3122-100)
- Phosphoseek™ PTP1B Assay kit (Cat. No. K707-400)
- Human recombinant PTP1B (Cat. No. 6301-100)
- Human recombinant SHP-1 (Cat. No. 6302-100)
- Human recombinant PP2C alpha (Cat. No. 6303-100)
- Human recombinant PPM1G (Cat. No. 6369-50)
- Human recombinant DUSP3 (Cat. No. 6371-100)

FOR RESEARCH USE ONLY! Not to be used in humans.