

SA6016X**Human Protein phosphatase 1A / PPM1A (1-382, His-tag) - Purified**

Alternate names:	PP2C-alpha, PPPM1A, Protein phosphatase 2C isoform alpha, Protein phosphatase IA
Quantity:	0.5 mg
Concentration:	1.0 mg/ml (determined by Bradford assay)
Background:	Protein phosphatase 2C (PP2C α) is a Mn ²⁺ - or Mg ²⁺ -dependent protein serine/threonine phosphatase that is essential for regulating cellular stress response in eukaryotes.
Uniprot ID:	P35813
NCBI:	NP_066283.1
GeneID:	5494
Species:	Human
Source:	E. coli
Format:	State: Liquid purified protein Purity: >95% by SDS-PAGE Buffer System: 10 mM Tris-HCl, pH 7.5, 50 mM NaCl, 2 mM DTT, 1 mM MnCl ₂ , 20% glycerol Endotoxin Level: < 1.0 EU per 1 μ g of protein (determined by LAL method)
Description:	The protein coding region of PP2C α (amino acids 1-382) was cloned into an E. coli expression vector (BamHI/HindIII site). PP2C α was overexpressed in E. coli as a soluble His-tag fusion protein, and it was purified by conventional column chromatographic techniques. AA Sequence: <u>MRGSHHHHHH</u> GMASMTGGOO MGRDLYDDDD KDRWILMGAF LDKPKMEKHN AQQQGNGLRY GLSSMQGWRV EMEDAHTAVI GLPSGLESWS FFAVYDGHAG SQVAKYCEH LLDHITNNQD FKGSAGAPSV ENVKNGIRTG FLEIDEHMRV MSEKKHGADR SGSTAVGVLI SPQHTYFINC GDSRGLLCRN RKVHFFTQDH KPSNPLEKER IQNAGGSVMI QRVNGSLAVS RALGDFDYKC VHGKGPTEQL VSPEPEVHDI ERSEEDDQFI ILACDGIWDV MGNEELCDFV RSRLEVTDL EKVCNEVVDT CLYKGSRDNM SVILICFPNA PKVSPEAVKK EAELDKYLEC RVEEIIKKQG EGVVDLVHVM RTLASENIPS LPPGGELASK RNVIEAVYNR LNPYKNDTDD STSTDDMW Specific Activity: 8 kU/mg Specific activity is > 1,400 units/mg, and is defined as the amount of enzyme that hydrolyze 1.0 nmoles of p-nitrophenyl phosphate (pNPP) per minute at pH 7.5 at 37°C. Molecular weight: 46.6 kDa (418 aa), confirmed by MALDI-TOF
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	Das, A. K. et al. (1996) EMBO J. 15, 6798-6809.

Pictures:

Recombinant human PP2Calpha, His-tagged

