

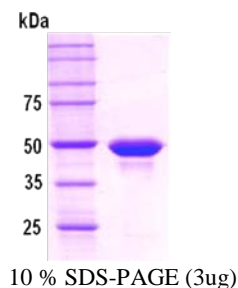
**Product:** Protein Phosphatase 2C alpha (PP2C  $\alpha$ , 1–382 aa, His-tagged), human  
**Catalog #:** 01-2220  
**Amount:** 50  $\mu$ g

**DESCRIPTION:** Protein phosphatase 2C(PP2C $\alpha$ ) is a Mn<sup>2+</sup>- or Mg<sup>2+</sup>-dependent protein serine/threonine phosphatase that is essential for regulating cellular stress response in eukaryotes. The protein coding region of PP2C $\alpha$  (amino acids 1-382) was cloned into an *E. coli* expression vector(*Bam*HI/*Hind*III site).

**Synonyms:** PPM1A, PP2CA

**AA Sequence:**

MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMSGAFDKPKMEKHN  
 AQGQGNGLRY GLSSMQGWRV EMEDAHTAVIGLPSGLESWS FFAVYDGHAG SQVAKYCCEH  
 LLDHITNNQD FKGSAGAPSV ENVKNGIRTG FLEIDEHMRV MSEKKHGADRSGSTAVGVLI  
 SPQHTYFINC GDSRGLLCRN RKVHFFFTQDH KPSNPLEKER IQNAGGSVMI QRVNGSLAVS  
 RALGDFDYKC VHKGPTQL VSPEPEVHDI ERSEEDDQFI ILACDGIWV MGNEELCDFV  
 RSRLEVTDDL EKVCNEVVDV CLYKGSRDNM SVILICFPNA PKVSPEAVKK EAELDKYLEC  
 RVEEIIKKQG EGVPLVHVM RTLAENIPS LPPGGELASK RNVIEAVYNR  
 LNPYKNDDTD STSTDDMW



**SOURCE:** Recombinant, His-tagged, *E. coli* expression system  
**MOLECULAR WEIGHT:** 46.6 kDa (418aa)  
**PURITY:** > 95% by SDS PAGE  
**FORM:** Purified, in phosphate-buffered saline (PBS), pH 7.4  
**ENDOTOXIN:** < 1.0 EU per 1 $\mu$ g of protein (determined by LAL method)  
**SPECIFIC ACTIVITY:** >8,000units/mg of PP2C $\alpha$   
**UNIT DEFINITION:** One unit will hydrolyze 1nanomole of p-nitrophenyl phosphatate (pNPP) per minute at pH 7.4 at 37°C using 10mM of substrate  
**CONCENTRATION:** 1 mg/ml  
**STORAGE:** -20°C (aliquot), Avoid repeated freeze and thaw cycles  
**REFERENCE:**  
 Das, A. K. et al. (1996) EMBO J. **15**: 6798-6809

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