

Product datasheet for SA6016X

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

Product data:

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| Product Type: | Recombinant Proteins |
| Description: | Protein phosphatase 1A / PPM1A (1-382, His-tag) human protein, 0.5 mg |
| Species: | Human |
| Expression Host: | E. coli |
| Expression cDNA Clone or AA Sequence: | <u>MRGSHHHHHH</u> GMASMTGGQO MGRDLYDDDD KDRWILMGAF LDKPKMEKHN AQQQGNGLRY GLSSMQGWRV EMEDAHTAVI GLPSGLESWS FFAVYDGHAG SQVAKYCCEH LLDHITNNQD FKGSAGAPSV ENVKNGIRTG FLEIDEHMRV MSEKKHGADR SGSTAVGVLI SPQHTYFINC GDSRGLLCRN RKVHFFTQDH KPSNPLEKER IQNAGGSVMI QRVNGLAVS RALGDFDYKC VHKGKPTTEQL VSPEPEVHDI ERSEEDDQFI ILACDGIWDV MGNEELCDFV RSRLEVTDDL EKVCNEVVDI CLYKGSRDNM SVILICFPNA PKVSPEAVKK EAELDKYLEC RVEEIIKKQG EGVPDLVHVM RTLASENIPS LPPGGELASK RNVIEAVYNR LNPYKNDDTD STSTDDMW |
| Tag: | His-tag |
| Predicted MW: | 46.6 kDa |
| Concentration: | lot specific |
| Purity: | >95% by SDS-PAGE |
| Buffer: | Presentation State: Purified State: Liquid purified protein Buffer System: 10 mM Tris-HCl, pH 7.5, 50 mM NaCl, 2 mM DTT, 1 mM MnCl ₂ , 20% glycerol |
| Bioactivity: | Specific: 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. |
| Endotoxin: | < 1.0 EU per 1 µg of protein (determined by LAL method) |
| Preparation: | Liquid purified protein |
| Protein Description: | The protein coding region of PP2Ca (amino acids 1-382) was cloned into an E. coli expression vector (BamHI/HindIII site). PP2Ca was overexpressed in E. coli as a soluble His-tag fusion protein, and it was purified by conventional column chromatographic techniques. |
| 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. |
| Stability: | Shelf life: one year from despatch. |



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RefSeq: [NP_066283](#)
Locus ID: 5494
UniProt ID: [P35813](#), [A0A024R6A5](#)
Cytogenetics: 14q23.1
Synonyms: PP2C-ALPHA; PP2CA; PP2Calpha

Summary: The protein encoded by this gene is a member of the PP2C family of Ser/Thr protein phosphatases. PP2C family members are known to be negative regulators of cell stress response pathways. This phosphatase dephosphorylates, and negatively regulates the activities of, MAP kinases and MAP kinase kinases. It has been shown to inhibit the activation of p38 and JNK kinase cascades induced by environmental stresses. This phosphatase can also dephosphorylate cyclin-dependent kinases, and thus may be involved in cell cycle control. Overexpression of this phosphatase is reported to activate the expression of the tumor suppressor gene TP53/p53, which leads to G2/M cell cycle arrest and apoptosis. Three alternatively spliced transcript variants encoding distinct isoforms have been described. [provided by RefSeq, Jul 2008]

Protein Families: Druggable Genome, Phosphatase

Protein Pathways: MAPK signaling pathway

Product images:

