

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850 UNITED STATES Phone: +1-888-267-4436 Fax: +1-301-340-8606 techsupport@origene.com

OriGene Technologies GmbH

Schillerstr. 5 32052 Herford GERMANY Phone: +49-5221-34606-0 Fax: +49-5221-34606-11 info-de@origene.com

JHUU IUN	SA	6	01	6X
----------	----	---	----	-----------

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 (PP2Calpha) is a Mn2+- or Mg2+-dependent protein serine/threonine phosphatase that is essential for regulating cellular stress response in eukaryotes.
Uniprot ID:	<u>P35813</u>
NCBI:	<u>NP_066283.1</u>
GenelD:	<u>5494</u>
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 MnCl2, 20% glycerol Endotoxin Level: < 1.0 EU per 1 μg of protein (determined by LAL method)
Description:	 The protein coding region of PP2Ca (amino acids 1-382) was cloned into an E. coli expression vector (BamHI/HindШ site). PP2Ca was overexpressed in E. coli as a soluble His-tag fusion protein, and it was purified by conventional column chromatographic techniques. AA Sequence: MRGSHHHHHH GMASMTGGOO MGRDLYDDDD KDRWILMGAF LDKPKMEKHN AQGQGNGLRY GLSSMQGWRV EMEDAHTAVI GLPSGLESWS FFAVYDGHAG SQVAKYCCEH LLDHITNNQD FKGSAGAPSV ENVKNGIRTG FLEIDEHMRV MSEKKHGADR SGSTAVGVLI SPQHTYFINC GDSRGLLCRN RKVHFFTQDH KPSNPLEKER IQNAGGSVMI QRVNGSLAVS RALGDFDYKC VHGKGPTEQL VSPEPEVHDI ERSEEDDQFI ILACDGIWDV MGNEELCDFV RSRLEVTDDL EKVCNEVVDT CLYKGSRDNM SVILICFPNA PKVSPEAVKK EAELDKYLEC RVEEIIKKQG EGVPDLVHVM RTLASENIPS LPPGGELASK RNVIEAVYNR LNPYKNDDTD 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.

For research and in vitro use only. Not for diagnostic or therapeutic work. Material Safety Datasheets are available at www.acris-antibodies.com or on request.

	SA6016X: Human Protein phosphatase 1A / PPM1A (1-382, His-tag) - Pu			
Pictures:	Recombinant human PP2Calpha, His- tagged	75 50 25		

10%SDS-PAGE

For research and in vitro use only. Not for diagnostic or therapeutic work. Material Safety Datasheets are available at www.acris-antibodies.com or on request.