

PPM1A Protein, Human (His)

Cat. No.:	HY-P71227
Synonyms:	Protein Phosphatase 1A; Protein Phosphatase 2C Isoform Alpha; PP2C-Alpha; Protein Phosphatase IA; PPM1A; PPPM1A
Species:	Human
Source:	E. coli
Accession:	P35813 (G2-W382)
Gene ID:	5494
Molecular Weight:	Approximately 45.0 kDa

PROPERTIES

AA Sequence	<p> G A F L D K P K M E K H N A Q G Q G N G L R Y G L S S M Q G W R V E M E D A H T A V I G L P S G L E S W S F F A V Y D G H A G S Q V A K Y C C E H L L D H I T N N Q D F K G S A G A P S V E N V K N G I R T G F L E I D E H M R V M S E K K H G A D R S G S T A V G V L I S P Q H T Y F I N C G D S R G L L C R N R K V H F F T Q D H K P S N P L E K E R I Q N A G G S V M I Q R V N G S L A V S R A L G D F D Y K C V H G K G P T E Q L V S P E P E V H D I E R S E E D D Q F I I L A C D G I W D V M G N E E L C D F V R S R L E V T D D L E K V C N E V V D T C L Y K G S R D N M S V I L I C F P N A P K V S P E A V K K E A E L D K Y L E C R V E E I I K K Q G E G V P D L V H V M R T L A S E N I P S L P P G G E L A S K R N V I E A V Y N R L N P Y K N D D T D S T S T D D M W </p>
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	PPM1A, an enzyme with broad specificity, functions as a negative regulator in various signaling pathways. It plays a pivotal
-------------------	------------------------------------------------------------------------------------------------------------------------------

role in the attenuation of TGF-beta signaling by dephosphorylating SMAD2 and SMAD3. This enzymatic action leads to the dissociation of SMAD2 and SMAD3 from SMAD4, their nuclear export, and ultimately, the termination of TGF-beta-mediated signaling. Additionally, PPM1A dephosphorylates PRKAA1 and PRKAA2, contributing to the modulation of cellular processes. Another significant aspect of its regulatory function involves the termination of TNF-alpha-mediated NF-kappa-B activation. In this context, PPM1A dephosphorylates and inactivates IKK β /IKK γ , contributing to the downregulation of NF-kappa-B signaling.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA