

PP1MG Protein, Human (His)

Cat. No.:	HY-P71022
Synonyms:	Protein Phosphatase 1G; Protein Phosphatase 1C; Protein Phosphatase 2C Isoform Gamma; PP2C-Gamma; Protein Phosphatase Magnesium-Dependent 1 Gamma; PPM1G; PPM1C
Species:	Human
Source:	E. coli
Accession:	O15355 (M317-D546)
Gene ID:	5496
Molecular Weight:	Approximately 30.0 kDa

PROPERTIES

AA Sequence	<pre> MEGKEE P G S D S G T T A V V A L I R G K Q L I V A N A G D S R C V V S E A G K A L D M S Y D H K P E D E V E L A R I K N A G G K V T M D G R V N G G L N L S R A I G D H F Y K R N K N L P P E E Q M I S A L P D I K V L T L T D D H E F M V I A C D G I W N V M S S Q E V V D F I Q S K I S Q R D E N G E L R L L S S I V E E L L D Q C L A P D T S G D G T G C D N M T C I I I C F K P R N T A E L Q P E S G K R K L E E V L S T E G A E E N G N S D K K K K A K R D </pre>
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 25 mM Tris-HCl, 1 mM DTT, 1 mM EDTA, 2 mM β-ME, 20% Glycerol, pH 7.5.
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	<p>PPM phosphatase family consists of at least 17 members. PPM phosphatases are dependent on Mg²⁺ or Mn²⁺ ions for their activity. PP1MG Protein, Human (His) forms a distinct holoenzyme complex with the PP2A regulatory subunit B56δ. B56δ promotes the relocalization of PPM1G to the cytoplasm where the phosphatase can access a discrete set of substrates. α catenin, a component of adherens junction, as a new substrate for the PPM1G/B56 phosphatase complex in the cytoplasm. B56δ/PPM1G dephosphorylates α catenin at serine 641^[1].</p>
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Overexpression of PPM1G promotes the dephosphorylation of SRSF3 and changes the alternative splicing patterns of genes related to the cell cycle, the transcriptional regulation in HCC cells. The knockdown of PPM1G inhibited tumor growth in vivo [2].

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

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