PPM1H protein, Human (HEK293, His)

Cat. No.:	HY-P701180
Synonyms:	Protein phosphatase 1H, PPM1H
Species:	Human
Source:	HEK293
Accession:	Q9ULR3 (M1-S514)
Gene ID:	57460
Molecular Weight:	Approximately 75 kDa

PROPERTIES

AA Sequence	M L T R V K S A V A N F M G G I M A G S S G S E H G G G S C G G S D L P L R F P Y G R P E F L G L S Q D E V E C S A D H I A R P I L I L K E T R R L P W A T G Y A E V I N A G K S T H N E D Q A S C E V L T V K K K A G A V T S T P N R N S S K R R S S L P N G E G L Q L K E N S E S E G V S C H Y W S L F D G H A G S G A A V V A S R L L Q H H I T E Q L Q D I V D I L K N S A V L P P T C L G E E P E N T P A N S R T L T R A A S L R G G V G A P G S P S T P P T R F F T E K K I P H E C L V I G A L E S A F K E M D L Q I E R E R S S Y N I S G G C T A L I V I C L L G K L Y V A N A G D S R A I I I R N G E I I P M S S E F T P E T E R Q R L Q Y L A F M Q P H L L G N E F T H L E F P R R V Q R K E L G K K M L Y R D F N M T G W A Y K T I E D E D L K F P L I Y G E G K K A R V M A T I G V T R G L G D H D L K V H D S N I Y I K P F L S S A P E V R I Y D L S K Y D H G S D D V L I L A T D G L W D V L S N E E V A E A I T Q F L P N C D P D D P H R Y T L A A Q D L V M R A R G V L K D R G W R I S N D R L G S G D D I S V Y V I P L I H G N K L S
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.22 μm filtered solution of 25 mM Tris-HCl, 150 mM NaCl, pH 7.4, 10% Glycerol.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	The subject, PPM1H, functions as an enzyme that dephosphorylates CDKN1B at 'Thr-187,' thereby playing a critical role in the regulation of cellular processes. By removing the phosphorylation signal at this specific site, PPM1H prevents the proteasomal degradation of CDKN1B, emphasizing its role in stabilizing the protein. This dephosphorylation event orchestrated by PPM1H contributes to the intricate control of CDKN1B levels, highlighting the enzyme's involvement in the modulation of cell cycle progression and the regulation of key cellular functions.

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