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PPM1A Protein (AA 2-382) (His tag)



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Quantity:	100 μg
Target:	PPM1A
Protein Characteristics:	AA 2-382
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PPM1A protein is labelled with His tag.

Product Details

Sequence:	Gly2-Trp382
Characteristics:	A DNA sequence encoding the Human PPM1A protein (P35813) (Gly 2-Trp 382) was expressed with a N-His.
Purity:	> 95 % as determined by reducing SDS-PAGE.

Target Details

Target:	PPM1A
Alternative Name:	PPM1A (PPM1A Products)
Background:	Abbreviation: PPM1A
	Target Synonym: Protein Phosphatase 1A,Protein Phosphatase 2C Isoform Alpha,PP2C-
	Alpha,Protein Phosphatase IA,PPM1A,PPPM1A,PP2C-ALPHA,PP2CA,PP2Calpha
	Background: Protein Phosphatase 1A (PPM1A) is a member of the PP2C family of Ser/Thr

Target Details

protein phosphatases which are known to be negative regulators of cell stress response pathways. PPM1A has a broad specificity. PPM1A negatively regulates the activities of MAP kinases and MAP kinases kinases. Also, it negatively regulates TGF-beta signaling through dephosphorylating SMAD2 and SMAD3, resulting in their dissociation from SMAD4, nuclear export of the SMADs and termination of the TGF-beta-mediated signaling. In addition, PPM1A can dephosphorylate cyclin-dependent kinases, and thus may be involved in cell cycle control.

Molecular Weight:

Calculated MW: 41.8 kDa

Observed MW: 45 kDa

UniProt:

P35813

Application Details

Restrictions:

For Research Use only

Handling

Format:	Lyophilized	
Buffer:	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization.	
Storage:	4 °C,-20 °C,-80 °C	
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.	
Expiry Date:	12 months	