

Product information

PPM1D, 98-375aa

Human, His-tagged, Recombinant, *E.coli*

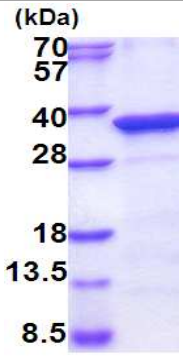
Cat. No. IBATGP2992

Full name: Protein phosphatase 1D magnesium-dependent, delta isoform

NCBI Accession No.: AAH33893

Synonyms: PP2C-DELTA, WIP1

Description: PPM1D also known as Protein phosphatase 1D magnesium-dependent, delta isoform. This protein is a member of the PP2C family of Ser/Thr protein phosphatases. PP2C family members are known to be negative regulators of cell stress response pathways. The expression of this gene is induced in a p53-dependent manner in response to various environmental stresses. While being induced by tumor suppressor protein TP53/p53, this phosphatase negatively regulates the activity of p38 MAP kinase (MAPK/p38) through which it reduces the phosphorylation of p53, and in turn suppresses p53-mediated transcription and apoptosis. This phosphatase thus mediates a feedback regulation of p38-p53 signaling that contributes to growth inhibition and the suppression of stress induced apoptosis. Recombinant human PPM1D, fused to His-tag at N-terminus, was expressed in *E.coli*.

<p>Form: Liquid, In 20mM Tris-HCl (pH8.0) containing 10% glycerol</p> <p>Molecular Weight: 33.2kDa (299aa)</p> <p>Purity: > 90% by SDS - PAGE</p> <p>Concentration: 0.5mg/ml (determined by Bradford assay)</p>	 <p>(kDa) 70 57 40 28 18 13.5 8.5</p> <p>15% SDS-PAGE (3ug)</p>
<p>Sequences of amino acids:</p> <p>MGSSHHHHH SSGLVPRGSH MVAFFAVCDG HGGREAAQFA REHFWGF I KK QKGFTSSEPA KVCAA I R KGF LACHLAMWKK LAEWPKTMTG LPSTSGTTAS VVI I RGMKMY VAHVGD SGVV LGIQDDPKDD FVRAVEVTQD HKPEL PKERE R I E L G G S V M N K S G V N R V V W K R P R L T H N G P V R R S T V I D Q I P F L A V A R A L G D L W S Y D F F S G E F V V S P E P D T S V H T L D P Q K H K Y I I L G S D G L W N M I P P Q D A I S M C Q D Q E E K K Y L M G E H G Q S C A K M L V N R A L G R W R Q R M L R A D N T S A I V I C I</p>	

General references:

Fiscella M., *et al.* (1997) *Proc Natl Acad Sci U S A*, 94 (12): 6048–53.

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.
Avoid repeated freezing and thawing cycles

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.