

Recombinant Human PPM1D Protein, MYC/DDK-tagged

Cat. No. PPM1D-2668H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human PPM1D protein, fused to MYC/DDK-tagged at C-terminus, was expressed in HEK293.
Species	Human
Source	HEK293
Description	The protein encoded by this gene 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. This gene is located in a chromosomal region known to be amplified in breast cancer. The amplification of this gene has been detected in both breast cancer cell line and primary breast tumors, which suggests a role of this gene in cancer development.
Form	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	66.5 kDa

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Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
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Concentration	>50 ug/mL as determined by microplate BCA method
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GENE INFORMATION

Gene Name	PPM1D protein phosphatase, Mg ²⁺ /Mn ²⁺ dependent, 1D [Homo sapiens]
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Official Symbol	PPM1D
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Synonyms	PP2C-DELTA; WIP1
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Gene ID	8493
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mRNA Refseq	NM_003620
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Protein Refseq	NP_003611
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MIM	605100
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UniProt ID	O15297
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