



# Recombinant Human Protein phosphatase 1D (PPM1D)

<b>Product Code</b>	CSB-MP018491HU
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	O15297
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	≥85% (SDS-PAGE)
<b>Sequence</b>	MAGLYSLGVS VFSDQGGRKY MEDVTQIVVE PEPTAEEKPS PRRSLSQPLP PRPSPAALPG GEVSGKGPVAV AAREARDPLP DAGASPAPSR CRRRSSVAF FAVCDGHGGR EAAQFAREHL WGFIKKQKGF TSSEPAKVCA AIRKGFLACH LAMWKKLAEW PKTMTGLPST SGTTASVVII RGMKMYVAHV GDSGVVLIQ DDPKDDFVRA VEVTQDHKPE LPKERERIEG LGGSVMNKSG VNRVVWKRPR LTHNGPVRRS TVIDQIPFLA VARALGDLWS YDFFSGEFVV SPEPDTSVHT LDPQKHKYII LGSDGLWNMI PPQDAISMCO DQEEKKYLML EHGQSCAKML VNRALGRWRQ RMLRADNTSA IVICISPEVD NQGNFTNEDE LYLNLTDSPS YNSQETCVMT PSPCSTPPVK SLEEDPWPRV NSKDHIPALV RSNAFSENFL EVSAEIAREN VQGVVIPSVD PEPELEENCAK ALTLRIHDSL NNSLPIGLVP TNSTNTVMDQ KNLKMSTPGQ MKAQEIERTP PTNFKRTLEE SNSGPLMKKH RRNGLSRSSG AQPASLPTTS QRKNSVKLTM RRRLRGQKKI GNPLLHQHRK TVCVC
<b>Source</b>	Mammalian cell
<b>Target Names</b>	PPM1D
<b>Protein Names</b>	Recommended name: Protein phosphatase 1D EC= 3.1.3.16 Alternative name(s): Protein phosphatase 2C isoform delta Short name= PP2C-delta Protein phosphatase magnesium-dependent 1 delta p53-induced protein phosphatase 1
<b>Expression Region</b>	1-605
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full length protein
<b>Target Details</b>	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. 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.

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**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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**Shelf Life**

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.