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## Product Data Sheet

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Product Name: PPM1G Human  
 Cat. No.: GP22136  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Protein Phosphatase 1G; PP2CG; PPP2CG; MGC1675; MGC2870; PP2C GAMMA; EC 3.1.3.16; Protein phosphatase 2C isoform gamma; PP2C-gamma; Protein phosphatase magnesium-dependent 1 gamma; Protein phosphatase 1C; PPM1G; PPM1C.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MEGKEEPGSD SGTAVVALI RGKQLIVANA GDSRCVVSEA GKALDMSYDH KPEDEVELAR IKNAGGKVTM DGRVNGGLNL SRAIGDHFYK RNKNLPPEEQ MISALPDIKV LTLTDDHEFM VIACDGIWNV MSSQEVVDFI QSKISRQDEN GELRLLSSIV EELLDQCLAP DTSGDGTGCD NMTCIICFK PRNTAELQPE SGKRKLEEV L STEGAEENGN SDKKKKAKRD.		
Formulation	The PPM1G solution (1mg/ml) contains 25mM Tris pH-7.5, 1mM DTT, 1mM EDTA, 2mM b-ME and 20% glycerol.		

### Introduction

PPM1G is part of the PP2C family of Ser/Thr protein phosphatases which are known to be negative regulators of cell stress response pathways. PPM1G is accountable for the dephosphorylation of Pre-mRNA splicing factors, an important factor for the formation of functional spliceosome. PPM1G regulates cell cycle progression. PPM1G mediates histone dephosphorylation/exchange in response to DNA damage or checkpoint recovery in higher eukaryotes. The degradation of p21/WAF1 induced by PPM1G is mediated in a proteasome-dependent manner. Protein phosphatase 1G regulates assembly and function of the beta-catenin degradation complex.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1%

**Caution: Product has not been fully validated for medical applications. For research use only.**

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HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

PPM1G Human Recombinant fused with His-tag at N-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 250 amino acids and having a molecular mass of 27 kDa. The PPM1G is purified by proprietary chromatographic techniques.

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