

Recombinant Human PPM1G, His-tagged

Cat. No. PPM1G-46H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human protein phosphatase 1G fused with His-tag at N-terminus produced in <i>E. Coli</i> is a single, non-glycosylated, polypeptide chain containing 250 amino acids and having a molecular mass of 27 kDa. The PRMT1 is purified by proprietary chromatographic techniques.
Species	Human
Source	E.coli
Description	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.
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MEGKEEPGSD SGTTAVVALI RGKQLIVANA GDSRCVVSEA GKALDMSYDH KPEDEVELAR IKNAGGKVTM DGRVNGGLNL SRAIGDHFYK RNKNLPPEEQ MISALPDIKV LTLTDDHEFM VIACDGIWNV MSSQEVVDFI QSKISQRDEN GELRLLSSIV EELLDQCLAP DTSGDGTGCD NMTCIICFK PRNTAELQPE SGKRKLEEV L STEGAEENG N SDKKKKAKRD.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Physical Appearance	Sterile Filtered colorless solution.
Purity	Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Formulation	The PPM1G solution (1 mg/ml) contains 25 mM Tris pH-7.5, 1 mM DTT, 1 mM EDTA, 2 mM β -ME and 20% glycerol.
Stability	PPM1G although stable 14°C for 4 weeks, should be stored desiccated below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

GENE INFORMATION

Gene Name	PPM1G protein phosphatase 1G (formerly 2C), magnesium-dependent, gamma isoform [Homo sapiens]
Synonyms	protein phosphatase 1G (formerly 2C), magnesium-dependent, gamma isoform; PP2CG; PPP2CG; MGC1675; MGC2870; PP2CGAMMA; PPM1G; protein phosphatase 1G; PP2C, gamma; protein phosphatase 1C; protein phosphatase 2C gamma isoform; protein phosphatase magnesium-dependent 1 gamma; protein phosphatase 2, catalytic subunit, gamma isoform; PP2Cgamma; PP2C-gamma; OTTHUMP00000123426; PPM1C; EC 3.1.3.16; Protein phosphatase 1C; Protein phosphatase 2C isoform gamma; Protein phosphatase magnesium-dependent 1 gamma
Gene ID	5496
mRNA Refseq	NM_002707
Protein Refseq	NP_002698

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MIM	605119
UniProt ID	O15355
Function	protein serine/threonine phosphatase activity; manganese ion binding; magnesium ion binding; hydrolase activity

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