

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 *E. Coli* 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 MGSSHHHHH SGLVPRGSH MEGKEEPGSD SGTTAVVALI RGKQLIVANA
GDSRCVVSEA GKALDMSYDH KPEDEVELAR IKNAGGKVTM DGRVNGGLNL
SRAIGDHFYK RNKNLPPEEQ MISALPDIKV LTLTDDHEFM VIACDGIWNV
MSSQEVVDFI QSKISRQDEN GELRLLSSIV EELLQCLAP DTSGDGTGCD
NMTCIICFK PRNTAELQPE SGKRKLEEV LSTEGAEENGN 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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