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PPM1G Human

Catalog #:ENPS-375

For research use only.

Description: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.

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.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence:MGSSHHHHHH SSGLVPRGSH MEGKEEPGSD SGTTAVVALI RGKQLIVANA GDSRCVVSEA GKALDMSYDH KPEDEVELAR IKNAGGKVTM DGRVNGGLNL SRAIGDHFYK RNKNLPPEEQ MISALPDIKV LTLTDDHEFM VIACDGIWNV MSSQEVVDFI QSKISQRDEN GELRLLSSIV EELLDQCLAP DTSGDGTGCD NMTCIIICFK PRNTAELQPE SGKRKLEEVL ST

Purity: Greater than 95.0% as determined by(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.

Formulation:
The PPM1G solution (1mg/ml) contains 25mM Tris pH-7.5, 1mM DTT, 1mM EDTA, 2mM -ME and 20% glycerol.

Stability:
PPM1G althoμgh stable 4°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.

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drμgs, agricultural or pesticidal products, food additives or household chemicals.

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.

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