



Product Datasheet

Product Name	Protein Phosphatase 1G Human Recombinant
Cata No	CB501377
Source	<i>Escherichia Coli.</i>
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.

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. 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.

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 (1mg/ml) contains 25mM Tris pH-7.5, 1mM DTT, 1mM EDTA, 2mM β -ME and 20% glycerol.

Stability

PPM1G although 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.

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 STEGAEENGN
SDK K K K KAKRD.