
Product Data Sheet

Product Name: PPM1G Human, 546 a.a.

Cat. No.: GP22137

Batch No.: 1

Product Data

Purity	>98%	Source	E.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	<p>MGSSHHHHHH SGLVPRGSH MGAYLSQPNT VKCSGDGVGA PRLPLPYGFS AMQGWRVSME DAHNCEPELD SETAMFSVYD GHGGEEVALY CAKYLPDIIK DQKAYKEGKL QKALEDAFLA IDAKLTTEEVIKELAQIAGR PTEDEDEKEK VADEDDVDNE EAALLHEEAT MTIEELLTRY GQNCHKGPPH SKSGGGTGEE PGSQGLNGEA GPEDSTRETP SQENGPTAKA YTGFSNSER GTEAGQVGEP GIPTGEAGPS CSSASDKLPR VAKSKFFEDS EDESDEAESEE EEDSEECSEE EDGYSSEAE NEEDEDDEE AEEDEEEEEE EMMVPGMEGK EEPGSDSGTT AVVALIRGKQ LIVANAGDSR CVVSEAGKAL DMSYDHPED EVELARIKNA GGKVTMDGRV NGGLNLSRAI GDHFYKRKNK LPPEEQMISA LPDIKVLTLT DDHEFMVIAC DGIWNVMSSQ EVVDFIQSKI SQRDENGELR LLSSIVEELL DQCLAPDTSG DGTGCDNMT CIIICFKPRNT AELQPESGKR KLEEVLSTEG AEENGNSDKK KKAKRD</p>		
Formulation	The PPM1G solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 0.1M NaCl, 0.1mM PMSF 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

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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

Background

PPM1G Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 566 amino acids (1-546) and having a molecular mass of 61.4 kDa. The PPM1G is fused to a 20 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

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