

Recombinant Human PPM1G, His-tagged

Cat. No. PPM1G-3564H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human PPM1G protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.
Species	Human
Source	Human
Description	PPM1G, as known as protein phosphatase 1G, is a member of the PP2C family of Ser/Thr protein phosphatases that is negative regulators of cell stress response pathways. This enzyme localizes to the cytoplasm and is widely expressed, with most abundant expression detected in testis, skeletal muscle and heart. It is necessary for the dephosphorylation of pre-mRNA splicing factors, which is an important process for the formation of the functional spliceosome.
Form	Liquid. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 0.1M NaCl, 1mM DTT, 0.1mM PMSF.
Molecular Weight	61.4 kDa (566aa)
Purity	> 85% by SDS - PAGE
Concentration	1.0mg/ml (determined by BCA assay)
Biological activity	Specific activity: >3,000 units/mg. Enzymatic activity was confirmed by measuring the amount of enzyme hydrolyzing 1 nmole of p-nitrophenyl phosphate (pNPP) per minute

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at 37C, pH7.5 using 10mM of substrate.

Sequences of aminoacids

MGSSHHHHHSSGLVPRGSH MGAYLSQPNT VKCSGDGVGA PRLPLPYGFS
 AMQGWRVSME DAHNCIPELD SETAMFSVYDGHGGEEVALY CAKYLPDIK
 DQKAYKEGKL QKALEDAFLA IDAKL TTEEV IKELAQIAGR
 PTEDEDEKEKVADEDDVDNE EAALLHEEAT MTIEELLTRY GQNCHKGPPH
 SKSGGGTGEE PGSQGLNGEA GPEDSTRETSPQENGPTAKA YTGFSNSER
 GTEAGQVGEP GIPTGEAGPS CSSASDKLPR VAKSKFFEDS
 EDESDEAEIEEEEDSEECSEE EDGYSSEEAE NEEDEDDEE AEEDDEEEEE
 EMMVPGMEGK EEPGSDSGTT AVVALIRGKQLIVANAGDSR CUVSEAGKAL
 DMSYDHPED EVELARIKNA GGKVTMDGRV NGGLNLSRAI
 GDHFYKRNKNLPPEEQMISA LPDIKVLTLT DDHEFMVIAC DGIWNVMSQ
 EVVDFIQSKI SQRDENGELR LLSSIVEELLDQCLAPDTSG DGTGCDNMTC
 IICFKPRNT AELQPESGKR KLEEVLSTEG AEENGNSDKK KKAARD

Storage

Can bestored at +4°C short term (1-2 weeks). For long term storage, aliquot andstore at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name

PPM1G protein phosphatase,Mg²⁺/Mn²⁺ dependent, 1G [Homo sapiens]

Official Symbol

PPM1G

Synonyms

PPM1G; protein phosphatase, Mg²⁺/Mn²⁺-dependent, 1G; PP2CG; PPP2CG;
 PP2CGAMMA; protein phosphatase 1G; PP2C-gamma;PP2C, gamma; MGC1675;
 protein phosphatase 1C; protein phosphatase 2C gammaisoform; protein
 phosphatase 2C isoform gamma; protein phosphatasemagnesium-dependent 1
 gamma; protein phosphatase 2, catalytic subunit, gammaisoform; protein
 phosphatase 1G (formerly 2C), magnesium-dependent, gammaisoform; EC 3.1.3.16;

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OTTHUMP00000123426

Gene ID

5496

mRNA Refseq

NM_177983

Protein Refseq

NP_817092

MIM

605119

UniProt ID



O15355

**Chromosome
Location**

2p23.3

Pathway

mRNA processing

Functioncatalytic activity; hydrolase activity; metal ion binding; protein serine/threonine
phosphatase activity 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