

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 CAKYLPDIIK
DQKAYKEGKL QKALEDAFLA IDAKL TTEEV IKELAQIAGR
PTEDEDEKEKVADEDDVDNE EAALLHEEAT MTIEELLTRY GQNCHKGPPH
SKSGGGTGEE PGSQGLNGEA GPEDSTRETPSQENGPTAKA YTGFSNSER
GTEAGQVGEP GIPTGEAGPS CSSASDKLPR VAKSKFFEDS
EDESDEAEEDSEECSEE EDGYSSEAE NEEDEDTEE AEEDDEEEEEE
EMMVPGMGEGK EEPGSDSGTT AVVALIRGKQLIVANAGDSR CUVSEAGKAL
DMSYDHPED EVELARIKNA GGKVTMDGRV NGGLNLSRAI
GDHFYKRNKNLPPEEQMISA LPDIKVLTLT DDHEFMVIAC DGIWNVMSSQ
EVVDFIQSKI SQRDENGELR LLSSIVEELLDQCLAPDTSG DGTGCDNMTC
IIICFKPRNT AELQPESGKR KLEEVLTSTEG 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
Function	catalytic activity; hydrolase activity;metal ion binding; protein serine/threonine phosphatase activity

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