

Human Recombinant PPM1G

CATALOG #:	6369-50	50 µg
ALTERNATE NAMES:	Protein phosphatase 1G, PP2CG, PPP2CG, MGC1675, MGC2870, PP2CGAMMA.	
SOURCE:	E.Coli	
PURITY:	> 85% by SDS - PAGE	
MOL. WEIGHT:	61.4 kDa (566 aa, 1-546 aa + NT His-Tag)	
FORMULATION:	1 mg/ml solution in 20 mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 1 mM DTT, 0.1 M NaCl, and 0.1 mM PMSF.	

STORAGE CONDITIONS:

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

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.

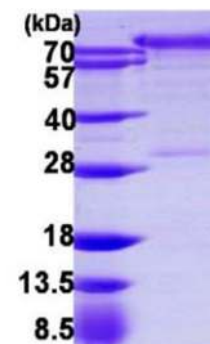
AMINO ACID SEQUENCE:

MGSSHHHHHH SSGLVPRGSH MGAYLSQPNT VKCSGDGVGA PRLPLPYGFS
 AMQGWRVSM E DAHNCEIPELD SETAMFSVYD GHGGEEVALY CAKYLPDIK
 DQKAYKEGKL QKALEDAFLA IDAKLTTEEV IKELAQIAGR PTEDEDEKEK VADEDDVDNE
 EAALLHEEAT MTIEELLTRY GQNCHKGPPH SKSGGGTGEE PGSQGLNGEA
 GPEDSTRETP SQENGPTAKA YTGFSNSER GTEAGQVGEP GIPTGEAGPS
 CSSASDKLPR VAKSKFFEDS EDESDEAE EEDSEECSEE EDGYSSEAE
 NEEDEDTEE AEEDDEEEEE EMMVPGMEGK EEPGSDSGTT AVVALIRGKQ

LIVANAGDSR CVVSEAGKAL DMSYDHPED EVELARIKNA GGKVTMDGRV NGGLNLSRAI
 GDHFYKRKNK LPPEEQMISA LPDIKVLTLT DDHEFMVIAC DGIWVMSSQ EVVDFIQSKI
 SQRDENGELR LLSSIVEELL DQCLAPDTSG DGTGCDNMTC IICFKPRNT AELQPESGKR
 KLEEVLTSTEG AEENGNSDKK KKAARD

BIOLOGICAL ACTIVITY:

Specific Activity: >5,000 units/mg. One unit will hydrolyze 1 nmole of p-nitrophenylphosphatate (pNPP) per minute at 37°C, pH 7.5 using 10 mM of substrate.



15% SDS-PAGE (3µg)

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RELATED PRODUCTS:

- bpV (phen) (Cat. No. 1793-5)
- bpV (pic) (Cat. No. 1794-5)
- PTP1B Antibody (Cat. No. 3171-100)
- PTP1B Antibody (Cat. No. 3174-100)
- Nodularin (Cat. No. 2994-50)
- PTPRD Antibody (NT) (Cat. No. 5313-100)
- PTP1B Antibody (Clone 107AT531) (Cat. No. 3122-100)
- Phosphoseek™ PTP1B Assay kit (Cat. No. K707-400)
- Human recombinant PTP1B (Cat. No. 6301-100)
- Human recombinant SHP-1 (Cat. No. 6302-100)
- Human recombinant PP2C alpha (Cat. No. 6303-100)
- Human recombinant PPP1CA (Cat. No. 6370-10)
- Human recombinant DUSP3 (Cat. No. 6371-100)

FOR RESEARCH USE ONLY! Not to be used in humans.