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## Recombinant human PP2C gamma/PPM1G protein

Catalog Number: ATGP3784

#### PRODUCT INFORMATION

### **Expression system**

E.coli

#### **Domain**

1-546aa

#### UniProt No.

015355

#### **NCBI Accession No.**

NP 817092

## **PRODUCT SPECIFICATION**

### **Molecular Weight**

61.4 kDa (566aa)

#### Concentration

1mg/ml (determined by BCA assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 0.1M NaCl, 0.1mM PMSF

#### **Purity**

> 85% by SDS-PAGE

## Tag

His-Tag

#### **Application**

SDS-PAGE

### **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

### **BACKGROUND**

#### **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. Recombinant human PPM1G protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

### **Amino acid Sequence**

< MGSSHHHHHH SSGLVPRGSH> MGAYLSQPNT VKCSGDGVGA PRLPLPYGFS AMQGWRVSME DAHNCIPELD



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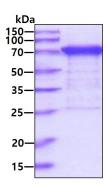
SETAMFSVYD GHGGEEVALY CAKYLPDIIK DQKAYKEGKL QKALEDAFLA IDAKLTTEEV IKELAQIAGR PTEDEDEKEK VADEDDVDNE EAALLHEEAT MTIEELLTRY GQNCHKGPPH SKSGGGTGEE PGSQGLNGEA GPEDSTRETP SQENGPTAKA YTGFSSNSER GTEAGQVGEP GIPTGEAGPS CSSASDKLPR VAKSKFFEDS EDESDEAEEE EEDSEECSEE EDGYSSEEAE NEEDEDDTEE AEEDDEEEEE EMMVPGMEGK EEPGSDSGTT AVVALIRGKQ LIVANAGDSR CVVSEAGKAL DMSYDHKPED EVELARIKNA GGKVTMDGRV NGGLNLSRAI GDHFYKRNKN LPPEEQMISA LPDIKVLTLT DDHEFMVIAC DGIWNVMSSQ EVVDFIQSKI SQRDENGELR LLSSIVEELL DQCLAPDTSG DGTGCDNMTC IIICFKPRNT AELQPESGKR KLEEVLSTEG AEENGNSDKK KKAKRD

#### **General References**

Travis SM., et al. (1997) FEBS Lett. 412(3):415-9. Brautigan D.L., et al. (2005) Biochemistry. 44(33):11067-73.

## **DATA**

#### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

