

Recombinant human PP2C gamma/PPM1G protein

Catalog Number: ATGP3784

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-546aa

UniProt No.

O15355

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 SGLVPRGSH> MGAYLSQPNT VKCSGDGVGA PRLPLPYGFS AMQGWRVSME DAHNCIPELD

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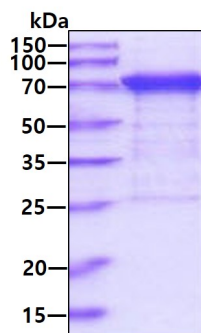
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VADEDDVDNE EAALLHEEAT MTIEELLTRY GQNCHKGPPH SKSGGGTGEE PGSQGLNGEA GPEDSTRETP SQENGPATA
YTGFSNSER GTEAGQVGEP GIPTGEAGPS CSSASDKLPR VAKSKFFEDS EDESDEAEAE EEDSEECSEE EDGYSSEEAE
NEEDEDTEE AEEDDEEEEEE EMMVPGMEGK EEPGSDSGTT AVVALIRGKQ LIVANAGDSR CVVSEAGKAL DMSYDHPED
EVELARIKNA GGKVTMDGRV NGGLNLSRAI GDHFKRNKN LPPEEQMISA LPDIKVLTLT DDHEFMVIAC DGIWNVMSQ
EVDVFIQSKI SQRDENGELR LLSSIVEELL DQCLAPDTSG DGTGCDNMT CIIICFKPRNT AELQPESGKR KLEEVLTSTEG
AEENGNSDKK KKAKRD

General References

Travis SM., et al. (1997) FEBS Lett. 412(3):415-9.
Brautigam 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.