

Recombinant Human Protein Phosphatase, Mg²⁺/Mn²⁺ Dependent, 1G, His-tagged

Cat. No. PPM1G-1756H 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 are 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.
Concentration	1 mg/ml
Form	Supplied as a liquid in 20mM Tris-HCl buffer, pH 8.0, containing 20% glycerol, 0.1M NaCl, 1mM DTT and 0.1mM PMSF.
Purity	> 85% by SDS -PAGE
Sequence	1-546 amino acids: MGSSHHHHHH SSGLVPRGSH MGAYLSQPNT VKCSGDGVGA PRLPLPYGFS AMQGWRVSME DAHNCIPELDSETAMFSVYD GHGGEEVALY CAKYLPDIIK DQKAYKEGKL QKALEDAFLA IDAKLTTEEY

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	IKELAQIAGRPTEDEDEKEK VADEDDVDNE EAALLHEEAT MTIEELLTRY GQNCHKGPPH SKSGGGTGEE PGSQGLNGEAGPEDS
Molecular Mass	61.4 kDa (566aa)
Applications	SDS-PAGE
Storage	Store at 4 deg C for short term storage (1/2 weeks). Aliquot and store at -20 deg C or -70 deg C for long term storage. Avoid repeated freeze/thaw cycles.
Official Symbol	PPM1G
GENE INFORMATION	
Gene Name	PPM1G protein phosphatase 1G (formerly 2C), magnesium-dependent, gamma isoform [Homosapiens]
Synonyms	PPM1G; protein phosphatase, Mg ²⁺ /Mn ²⁺ dependent, 1G; PPM1C; PP2CG; PPP2CG; MGC1675; MGC2870; PP2CGAMMA; PP2Cgamma; PP2C-gamma; PP2C, gamma; EC 3.1.3.16; OTTHUMP00000123426; protein phosphatase 1G; Protein phosphatase 1G; protein phosphatase 1C; protein phosphatase 2C gamma isoform; protein phosphatase 2C isoform gamma; Protein phosphatase 2C isoform gamma; Protein phosphatase magnesium-dependent 1 gamma; protein phosphatase magnesium-dependent 1 gamma; protein phosphatase 2, catalytic subunit, gamma isoform; protein phosphatase 1G (formerly 2C), magnesium-dependent, gamma isoform
Gene ID	5496
mRNA Refseq	NM_002707

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Protein Refseq	NP_002698
MIM	605119
UniProt ID	O15355
Chromosome Location	2p23.3
Pathway	mRNA processing
Function	proteinserine/threonine phosphatase activity; manganese ion binding; magnesium ionbinding; hydrolase activity

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