

## PPM1G Protein, Human, Recombinant (aa 317-546, His)

### General Information

Synonyms:	protein phosphatase, Mg <sup>2+</sup> /Mn <sup>2+</sup> dependent, 1G;PP2Cy;PPP2CG;PP2CGAMMA;PP2CG
Protein Construction:	A DNA sequence encoding the human PPM1G (O15355) C-terminal fragment (Met 317-Asp 546) was expressed, with a polyhistidine tag at the N-terminus. Predicted N terminal: Met
Species:	Human
Expression Host:	E. coli
Accession:	O15355
Molecular Weight:	26.6 kDa (predicted); 30 kDa (reducing conditions)

### QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 95 % as determined by SDS-PAGE
Endotoxin:	Please contact us for more information.
Formulation:	Supplied as sterile 50 mM Tris, 1 mM DTT, 20% glycerol, pH 7.5.

### Preparation and Storage

Reconstitution:	A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.
Stability & Storage:	It is recommended to store the product under sterile conditions at -20°C to -80°C. Samples are stable for up to 12 months. Please avoid multiple freeze-thaw cycles and store products in aliquots. <small>Actual storage temperature shall be subject to the COA.</small>
Shipping:	Proteins are shipped with blue ice.

### Protein Background

Protein phosphatase 1G, also known as Protein phosphatase 1C, Protein phosphatase 2C isoform gamma, Protein phosphatase magnesium-dependent 1 gamma, PP2C-gamma, PPM1G and PPM1C, is a cytoplasm protein that belongs to the PP2C family. PPM1G / PP2C-gamma is widely expressed. It is most abundant in testis, skeletal muscle, and heart. Alternatively spliced transcript variants encoding the same protein have been described. PP2C family members are known to be negative regulators of cell stress response pathways. PPM1G / PP2C-gamma is found to be responsible for the dephosphorylation of Pre-mRNA splicing factors, which is important for the formation of functional spliceosome. PPM1G / PP2C-gamma also plays a role in regulating cell cycle progression.

Reference

Travis S.M., et al., 1997, FEBS Lett. 412:415-9.

Molina H., et al., 2007, Proc. Natl. Acad. Sci. USA. 104: 2199-204.

Matsuoka S., et al., 2007, Science 316:1160-6.

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