

Human PPM1G / PP2C-gamma Protein (aa 317-546, His Tag)

Catalog Number: 11245-H07E



Sino Biological
Biological Solution Specialist

General Information

Gene Name Synonym:

PP2CG; PP2CGAMMA; PPP2CG

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.

Source: Human

Expression Host: E. coli

QC Testing

Purity: > 95 % as determined by SDS-PAGE

Endotoxin:

Please contact us for more information.

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Met

Molecular Mass:

The recombinant human PPM1G comprises 241 amino acids and has a predicted molecular mass of 26.6 kDa. It migrates as an approximately 30 kDa band in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile 50mM Tris, 1mM DTT, 20% glycerol, pH 7.5

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

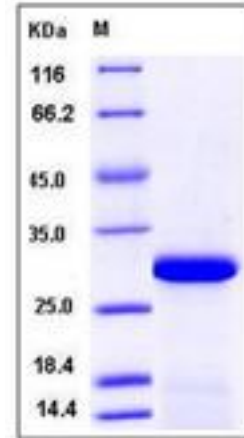
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

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 which 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.

References

1.Travis S.M., et al., 1997, FEBS Lett. 412:415-9. 2.Molina H., et al., 2007, Proc. Natl. Acad. Sci. USA. 104: 2199-204. 3.Matsuoka S., et al., 2007, Science 316:1160-6.

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