

Recombinant Human PPM1F

Cat. No. PPM1F-31046TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human PPM1F with an N-terminal tag, 74kDa.
Species	Human
Source	E.coli
Description	The protein encoded by this gene is a member of the PP2C family of Ser/Thr protein phosphatases. PP2C family members are known to be negative regulators of cell stress response pathways. This phosphatase can interact with Rho guanine nucleotide exchange factors (PIX), and thus block the effects of p21-activated kinase 1 (PAK), a protein kinase mediating biological effects downstream of Rho GTPases. Calcium/calmodulin-dependent protein kinase II gamma (CAMK2G/CAMK-II) is found to be one of the substrates of this phosphatase. The overexpression of this phosphatase or CAMK2G has been shown to mediate caspase-dependent apoptosis. An alternatively spliced transcript variant has been identified, but its full-length nature has not been determined.
Form	Liquid
Storage buffer	Preservative: None Constituents: 25% Glycerol, 50mM Sodium chloride, 50mM Tris HCl, 0.25mM DTT, 0.1mM PMSF, pH 7.5
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

GENE INFORMATION

Gene Name	PPM1F protein phosphatase, Mg ²⁺ /Mn ²⁺ dependent, 1F [Homo sapiens]
Official Symbol	PPM1F
Synonyms	PPM1F; protein phosphatase, Mg ²⁺ /Mn ²⁺ dependent, 1F; protein phosphatase 1F (PP2C domain containing); protein phosphatase 1F; Ca(2+)/calmodulin dependent protein kinase phosphatase; CAMKP; CaMKPase; FEM 2; KIAA0015; partner of PIX 2; POPX2;
Gene ID	9647
mRNA Refseq	NM_014634
Protein Refseq	NP_055449
Uniprot ID	P49593
Chromosome Location	22q11.22
Function	hydrolase activity; metal ion binding; protein serine/threonine phosphatase activity;

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