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**Product Data Sheet**


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Product Name: PPM1F Human  
 Cat. No.: GP22135  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Protein phosphatase 1F; Ca(2+)/calmodulin-dependent protein kinase phosphatase; CaM-kinase phosphatase; CaMKPase; Partner of PIX 2; Protein fem-2 homolog; hFem-2; KIAA0015; POPX2; PPM1F; CAMKP; FEM-2.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSMSSGAPQ KSSPMASGAE ETPGFLDTLL QDFPALLNPE DPLPWKAPGT VLSQEEVEGE LAELAMGFLG SRKAPPPLAA ALAHEAVSQL LQTDLSEFRK LPREEEEEEE DDDEEEKAPV TLLDAQSLAQ SFFNRLWEVA GQWQKQVPLA ARASQRQWLIV SIHAIRNTRR KMEDRHVSLP SFNQLFGLSD PVNRAYFAVF DGHGGVDAAR YAAVHVHTNA ARQPELPTDP EGALREAFRR TDQMFLRKAK RERLQSGTTG VCALIAGATL HVAWLGDSQV ILVQQGQVVK LMEPHRPERQ DEKARIEALG GFVSHMDCWR VNGTLAVSRA IGDVFQKPYV SGEADAASRA LTGSEDYLLL ACDGFFDVVP HQEVVGLVQS HLTRQQGSGL RVAEELVAAA RERGSHDNIT VMVFLRDPQ ELLEGGNQGE GDPQAEGRRQ DLPSSLPEPE TQAPPRS.		
Formulation	The PPM1F solution (1mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 0.15M NaCl, 20% glycerol and 1mM DTT.		

**Introduction**

Protein Phosphatase 1F (PPM1F) is a part of the PP2C family of Ser/Thr protein phosphatases whose members are known to be negative regulators of cell stress response pathways. PPM1F interacts with Rho guanine nucleotide exchange factors (PIX), and as a result blocks 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 one of the substrates of PPM1F. PPM1F is found to be an apoptosis Promoter.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

PPM1F Human Recombinant produced in E. coli is a single polypeptide chain containing 477 amino acids (1-454) and having a molecular mass of 52kDa.

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