Recombinant Human PPM1F, His-tagged

Cat. No. PPM1F-2281H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human PPM1F protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
ProteinLength	477aa
Description	PPM1F 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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 20% glycerol, 1mM DTT.
Molecular Mass	52kDa
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMSSGAPQ KSSPMASGAE ETPGFLDTLL QDFPALLNPE DPLPWKAPGT VLSQEEVEGE LAELAMGFLGSRKAPPPLAA ALAHEAVSQL LQTDLSEFRK LPREEEEEEE DDDEEEKAPV TLLDAQSLAQ

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	SFFNRLWEVA GQWQKQVPLA ARASQRQWLV SIHAIRNTRR KMEDRHVSLP SFNQLFGLSD PVNRAYFAVF DGHGGVDAAR YAAVHVHTNA ARQPELPTDP EGALREAFRR TDQMFLRKAKRERLQSGTTG VCALIAGATL HVAWLGDSQV ILVQQGQVVK LMEPHRPERQ DEKARIEALG GFVSHMDCWR VNGTLAVSRA IGDVFQKPYV SGEADAASRA LTGSEDYLLL ACDGFFDVVP HQEVVGLVQS HLTRQQGSGL RVAEELVAAA RERGSHDNIT VMVVFLRDPQ ELLEGGNQGEGDPQAEGRRQ DLPSSLPEPE TQAPPRS
Purity	>90% by SDS - PAGE
Applications	SDS-PAGE
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/ml

GENE INFORMATION

Gene Name	PPM1F protein phosphatase, Mg2+/Mn2+ dependent, 1F [Homo sapiens]
Official Symbol	PPM1F
Synonyms	PPM1F; protein phosphatase, Mg2+/Mn2+ 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; PP2C phosphatase; protein fem-2 homolog; CaM-kinase phosphatase; Ca(2+)/calmodulin-dependent protein kinase phosphatase; FEM-2; hFEM-2;
Gene ID	9647

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mRNA Refseq	NM_014634
Protein Refseq	NP_055449
UniProt ID	P49593
Chromosome Location	22q11.22
Function	calmodulin-dependent protein phosphatase activity; hydrolase activity; metal ion binding; phosphatase activity; protein binding; protein serine/threonine phosphatase activity; protein serine/threonine phosphatase activity;

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