



# Recombinant Human Protein phosphatase 1F (PPM1F)

<b>Product Code</b>	CSB-MP018493HU
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P49593
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	MSSGAPQKSS PMASGAEETP GFLDTLLQDF PALLNPEDPL PWKAPGTVLS QEEVEGELAE LAMGFLGSRK APPPLAAALA HEAVSQLLQT DLSEFRKLPR EEEEEEDDD EEEKAPVTLL DAQSLAQSF NRLWEVAGQW QKQVPLAARA SQRQWLVSIIH AIRNTRRKME DRHVSLPSFN QLFGLSDPVN RAYFAVFDGH GGVDAAARYAA VHVHTNAARQ PELPTDPEGA LREAFRRTDQ MFLRKAKRER LQSGTTGVCA LIAGATLHVA WLGDSQVILV QQGQVVKLME PHRPERQDEK ARIEALGGFV SHMDCWRVNG TLAVSRAIGD VFQKPYVSGE ADAASRALTG SEDYLLLACD GFFDVVPHQE VVGLVQSHLT RQQGSGLRVA EELVAAARER GSHDNITVMV VFLRDPQELL EGGNQGEGDP QAEGRRQDLP SSLPEPETQA PPRS
<b>Source</b>	Mammalian cell
<b>Target Names</b>	PPM1F
<b>Protein Names</b>	Recommended name: Protein phosphatase 1F EC= 3.1.3.16 Alternative name(s): Ca(2+)/calmodulin-dependent protein kinase phosphatase Short name= CaM-kinase phosphatase Short name= CaMKPase Partner of PIX 2 Protein fem-2 h
<b>Expression Region</b>	1-454
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full length protein
<b>Target Details</b>	This protein 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.



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**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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**Shelf Life**

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.