

Recombinant Human PPM1F,GST-tagged

Cat. No. PPM1F-1439H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human CaMKPase was expressed in <i>E. coli</i> cells using an N-terminal GST tag. MW = 74kDa.
Species	Human
Source	E.coli
Description	CaMKPase is a member of the PP2C family of Ser/Thr protein phosphatases that dephosphorylate and regulate the multifunctional Ca ²⁺ /calmodulin-dependent protein kinases (CaMKs). The multifunctional CaMKs mediate cellular responses induced by increases in second messenger Ca ²⁺ and have been implicated in the control of synaptic transmission, gene transcription, cell growth and contraction of cardiac and smooth muscles. Overexpression of CaMKPase has been shown to mediate caspase-dependent apoptosis. CaMKPase can also interact with the Rho guanine nucleotide exchange factors (PIX) thereby blocking the effects of p21-activated kinase 1 (PAK1).
Sequence	Full-length.
Applications	Western Blot.
Storage And Stability	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

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GENE INFORMATION

Gene Name	PPM1F protein phosphatase 1F (PP2C domain containing) [Homo sapiens]
Synonyms	PPM1F; protein phosphatase 1F (PP2C domain containing); CAMKP; FEM-2; POPX2; hFEM-2; CaMKPase; KIAA0015
Gene ID	9647
mRNA Refseq	NM_014634
Protein Refseq	NP_055449
UniProt ID	P49593
Chromosome Location	22q11.22
Function	hydrolase activity; magnesium ion binding; manganese ion binding; protein serine/threonine phosphatase activity

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