

Recombinant Human PPM1K, His-tagged

Cat. No. PPM1K-174H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Protein Phosphatase 1K Mitochondrial/PPM1K is produced by our mammalian expression system in human cells. The target protein is expressed with sequence (Asp30-Ala372) of Human PPM1K fused with a polyhistidine tag at the C-terminus.
Species	Human
Source	HEK293
Protein Length	30-372 a.a.
Description	Protein Phosphatase 1K Mitochondrial (PPM1K) is a member of the PP2C family. PPM1K localizes to the cell mitochondrion matrix and contains one PP2C-like domain. PPM1K has metal ion binding and protein serine/threonine phosphatase activity. One subunit of PPM1K can bind one magnesium or manganese ion. PPM1K regulates the mitochondrial permeability transition pore and it is essential for cellular survival and development.
AA Sequence	DDRRVTPTCHSSTSEPRCSRFPDGGSGSPATWDNFGIWDNRIDEPIILLPPSIKYGKP IPK61ISL EKVGCASQIGKRKENEDRFDFQAQLTDEVLYFAVYDGHGGPAAADFCHTH MEKCIMDL121LPKEK NLETLLTLAFLEIDKAFSSSHARLSADATLLTSGTTATVALLRD GIELVVASVGDS181RAILCRK GKPMKLTIDHTPERKDEKERIKKCGGFVAWNSLGQ PHVNGRLAMTRSIGDLDL241KTSGVIAEP ETKRIKLHHADDSFLVLTDDGINFMVNS QEICDFVNQCHDPNEAAHAVTEQ31AIQYGTEDNST AVVVPFGAWGKYKNSEINFS

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FSRSFASSGRWAVDHHHHHH

Endotoxin Less than 0.1 ng/μg (1 IEU/μg).

Purity Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.

GENE INFORMATION

Gene Name PPM1K protein phosphatase, Mg²⁺/Mn²⁺ dependent, 1K [Homo sapiens]

Official Symbol PPM1K

Synonyms PPM1K; protein phosphatase, Mg²⁺/Mn²⁺ dependent, 1K; protein phosphatase 1K (PP2C domain containing); protein phosphatase 1K, mitochondrial; BDP; branched chain α ketoacid dehydrogenase phosphatase; DKFZp761G058; hPTMP; PP2C type mitochondrial phosphoprotein phosphatase; PP2Ckappa; PP2Cm; protein phosphatase 2C kappa; PP2C-kappa; PP2C-like protein; PP2C-like mitochondrial protein; PP2C type mitochondrial phosphatase; protein phosphatase 2C isoform kappa; PP2C domain-containing protein phosphatase 1K; PP2C-type mitochondrial phosphoprotein phosphatase; branched-chain & #945; -ketoacid dehydrogenase phosphatase; PTMP; UG0882E07; DKFZp667B084;

Gene ID 152926

mRNA Refseq NM_152542

Protein Refseq NP_689755

MIM 611065

UniProt ID Q8N3J5

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Chromosome Location	4q22.1
Function	hydrolase activity; metal ion binding; protein serine/threonine phosphatase activity;