Recombinant Human PPM1A Protein, His-tagged

Cat. No. PPM1A-725H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PPM1A(Gly2~Try382) fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Gly2~Try382
Description	The protein encoded by this gene 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 dephosphorylates, and negatively regulates the activities of, MAP kinases and MAP kinase kinases. It has been shown to inhibit the activation of p38 and JNK kinase cascades induced by environmental stresses. This phosphatase can also dephosphorylate cyclin-dependent kinases, and thus may be involved in cell cycle control. Overexpression of this phosphatase is reported to activate the expression of the tumor suppressor gene TP53/p53, which leads to G2/M cell cycle arrest and apoptosis. Three alternatively spliced transcript variants encoding distinct isoforms have been described.
Form	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Molecular Mass	46.0kDa
Endotoxin	<1.0EU per 1μg (determined by the LAL method)

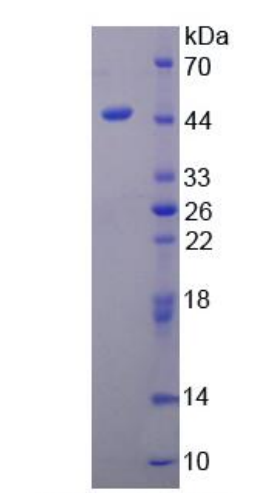
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Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB. If bio-activity of the protein is needed, please check active protein.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Reconstitution	Reconstitute in PBS or others.

GENE INFORMATION

Gene Name	PPM1A protein phosphatase, Mg2+/Mn2+ dependent, 1A [Homo sapiens]
Official Symbol	PPM1A
Synonyms	PPM1A; protein phosphatase, Mg2+/Mn2+ dependent, 1A; protein phosphatase 1A (formerly 2C), magnesium dependent, alpha isoform; protein phosphatase 1A; MGC9201; phosphatase 2C alpha; PP2CA; PP2Calpha; protein phosphatase 2C; alpha isoform; protein phosphatase 1A (formerly 2C), magnesium-dependent, alpha isoform; PP2C-ALPHA; FLJ42306;
Gene ID	5494
mRNA Refseq	NM_021003

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Protein Refseq	NP_066283
MIM	606108
UniProt ID	P35813
	 15% SDS-PAGE

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