

## Product datasheet for **TP302070L**

### PPM1A (NM\_021003) Human Recombinant Protein

#### Product data:

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Recombinant protein of human protein phosphatase 1A (formerly 2C), magnesium-dependent, alpha isoform (PPM1A), transcript variant 1, 1 mg
<b>Species:</b>	Human
<b>Expression Host:</b>	HEK293T
<b>Expression cDNA Clone or AA Sequence:</b>	>RC202070 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	<p>MGAFLDKPKMEKHNAQGQGNGLRYGLSSMQGWRVEMEDAHTAVIGLPSGLESWSFFAVYDGHAGSQVAKY          CCEHLLDHITNNQDFKGSAGAPSVENVKNGIRTGFLEIDEHMRVMSEKKGADRSSTAVGVLISQHTY          FINCGDSRGLLCRNKRVHFFTQDHPKPSNPLEKERIQNAGGSVMIQRVNGLAVSRALGDFDYKCVHKGKGP          TEQLVSPEPEVHDIERSEEDDQFIILACDGIWDVGMNEELCDFVRSRLEVTDDLEKVCNEVWDTCLYKGS          RDNMSVILICFPNAPKVSPEAVKKEAELDKYLECRVEEIIKKQGEGVPLVHVMRTLASENIPSLPPGGE          LASKRNVIEAVYNRLNPNYKNDTDDTSTDDMW</p> <p><b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b></p>
<b>Tag:</b>	C-Myc/DDK
<b>Predicted MW:</b>	42.3 kDa
<b>Concentration:</b>	>0.05 µg/µL as determined by microplate BCA method
<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
<b>Preparation:</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_066283</a>



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Locus ID: 5494

UniProt ID: [P35813](#), [A0A024R6A5](#)

RefSeq Size: 8210

Cytogenetics: 14q23.1

RefSeq ORF: 1146

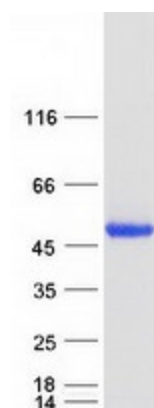
Synonyms: PP2C-ALPHA; PP2CA; PP2Calpha

**Summary:** 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. [provided by RefSeq, Jul 2008]

**Protein Families:** Druggable Genome, Phosphatase

**Protein Pathways:** MAPK signaling pathway

### Product images:



Coomassie blue staining of purified PPM1A protein (Cat# [TP302070]). The protein was produced from HEK293T cells transfected with PPM1A cDNA clone (Cat# [RC202070]) using MegaTran 2.0 (Cat# [TT210002]).