

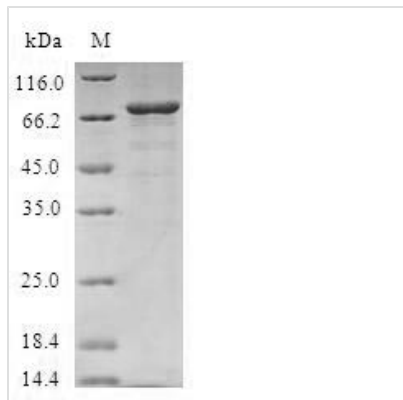


# Recombinant Human Protein phosphatase 1A (PPM1A)

<b>Product Code</b>	CSB-EP018489HU
<b>Relevance</b>	Enzyme with a broad specificity. Negatively regulates TGF-beta signaling through dephosphorylating SMAD2 and SMAD3, resulting in their dissociation from SMAD4, nuclear export of the SMADs and termination of the TGF-beta-mediated signaling. Dephosphorylates PRKAA1 and PRKAA2. Plays an important role in the termination of TNF-alpha-mediated NF-kappa-B activation through dephosphorylating and inactivating IKBKB/IKKB.
<b>Abbreviation</b>	Recombinant Human PPM1A protein
<b>Storage</b>	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.
<b>Uniprot No.</b>	P35813
<b>Alias</b>	Protein phosphatase 2C isoform alpha
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	≥ 90% as determined by SDS-PAGE.
<b>Sequence</b>	GAFLDKPKMEKHNAQQQGNGLRYGLSSMQGWVEMEDAHTAVIGLPSGLES WSFFAVYDGHAGSQQVAKYCCEHLLDHITNNQDFKGSAGAPSVENVKNGIRTG FLEIDEHMRVMSEKKGADRSGSTAVGVLISPQHTYFINGDGRLLCRNRKV HFFTQDHPKPSNPLEKERIQNAGGSVMIQRVNGSLAVSRALGDFDYKCVHGKG PTEQLVSPEPEVHDIERSEEDDQFIILACDGIWDVMGNEELCDFVRSRLEVTDD LEKVCNEVVDTCLYKGSRDNMSVILICFPNAPKVSPEAVKKEAELDKYLECRVE EIIKKQGEGVPLDVHVMRTLASENIPSLPPGGELASKRNVIEAVYNRLNPYKND DTDSTSTDDMW
<b>Research Area</b>	Signal Transduction
<b>Source</b>	E.coli
<b>Target Names</b>	PPM1A
<b>Protein Names</b>	Recommended name: Protein phosphatase 1A EC= 3.1.3.16 Alternative name(s): Protein phosphatase 2C isoform alpha Short name= PP2C-alpha Protein phosphatase IA
<b>Expression Region</b>	1-382aa
<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>	N-terminal GST-tagged
<b>Mol. Weight</b>	69.3kDa

**Protein Length**

Full Length

**Image**

(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

**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.

**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.