

## 32-7139: Recombinant Human Protein Phosphatase 1A/PPM1A (C-6His)

**Gene :** PPM1A  
**Gene ID :** 5494  
**Uniprot ID :** P35813

### Description

Source: E.coli.  
MW :43.5kD.

Recombinant Human PPM1A is produced by our E.coli expression system and the target gene encoding Gly2-Trp382 is expressed with a 6His tag at the C-terminus. Protein Phosphatase 1A (PPM1A) is a member of the PP2C family of Ser/Thr protein phosphatases which are known to be negative regulators of cell stress response pathways. PPM1A has a broad specificity. PPM1A negatively regulates the activities of MAP kinases and MAP kinase kinases. Also, it 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. In addition, PPM1A can dephosphorylate cyclin-dependent kinases, and thus may be involved in cell cycle control.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Supplied as a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH 7.4.  
**Storage condition :** Store at -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.  
**Amino Acid :** MGAFLDKPKMEKHNAQGQGNGLRYGLSSMQGWRVEMEDAHTAVIGLPSGLESWSFFAVYDGHAGSQVAKY  
CCEHLLDHITNNQDFKGSAGAPSVENVKNGIRTGFLEIDHMRVMSEKKHGADRSGSTAVGVLISPQHTYFINC  
GDSRGLLCRNRKVHFFTQDHKPSNPLEKERIQNAGGSVMIQRVNGSLAVSRALGDFDYKCVHGKGPTEQLVS  
PEPEVHDIERSEEDDQFIILACDGIWDVMGNEELCDFVRSRLEVTDLEKVCNEVVDTCLYKGSRDNMSVILICF  
PNAPKVSPEAVKKEAELDKYLECRVEEIIKKQGEVPLVHVMRTLASENIPSLPPGGELASKRNVIEAVYNRLNP  
YKNDTDTSTDDMWLEHHHHHH

### Application Note

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.