

**Recombinant Human Protein Phosphatase 1A Protein**

**Cat.NO.: TP04866**

3th Edition

**Synonyms:**Protein Phosphatase 1A; Protein Phosphatase 2C Isoform Alpha; PP2C-Alpha; Protein Phosphatase IA; PPM1A; PPPM1A

**Description:**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.

**Form:**PBS

**Molecular Weight:**43.5 kDa

**Sequences:**Gly2-Trp382

**Purity:**> 95% by HPLC

**Concentration:**

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.