

## Product datasheet for AR51812PU-N

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## PPM1D (98-375, His-tag) Human Protein

**Product data:** 

**Product Type: Recombinant Proteins** 

**Description:** PPM1D (98-375, His-tag) human recombinant protein, 0.25 mg

Species: Human E. coli **Expression Host:** 

**Expression cDNA Clone** 

or AA Sequence:

MGSSHHHHHH SSGLVPRGSH MVAFFAVCDG HGGREAAQFA REHFWGFIKK QKGFTSSEPA KVCAAIRKGF LACHLAMWKK LAEWPKTMTG LPSTSGTTAS VVIIRGMKMY VAHVGDSGVV LGIQDDPKDD FVRAVEVTQD HKPELPKERE RIEGLGGSVM NKSGVNRVVW KRPRLTHNGP VRRSTVIDQI PFLAVARALG DLWSYDFFSG EFVVSPEPDT SVHTLDPQKH KYIILGSDGL

WNMIPPQDAI SMCQDQEEKK YLMGEHGQSC AKMLVNRALG RWRQRMLRAD NTSAIVICI

Tag: His-tag Predicted MW: 33.2 kDa Concentration: lot specific

**Purity:** >90% by SDS - PAGE

**Buffer:** Presentation State: Purified

State: Liquid purified protein

Buffer System: Liquid, In 20 mM Tris-HCl (pH 8.0) containing 10% glycerol

Preparation: Liquid purified protein

**Protein Description:** Recombinant human PPM1D, fused to His-tag at N-terminus, was expressed in E.coli.

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Storage:

Avoid repeated freezing and thawing.

Shelf life: one year from despatch. Stability:

RefSeq: NP 003611

8493 Locus ID:

**UniProt ID:** O15297, A0A0S2Z4M2

Cytogenetics: 17q23.2

Synonyms: IDDGIP; JDVS; PP2C-DELTA; WIP1





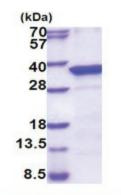
**Summary:** 

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. The expression of this gene is induced in a p53-dependent manner in response to various environmental stresses. While being induced by tumor suppressor protein TP53/p53, this phosphatase negatively regulates the activity of p38 MAP kinase, MAPK/p38, through which it reduces the phosphorylation of p53, and in turn suppresses p53-mediated transcription and apoptosis. This phosphatase thus mediates a feedback regulation of p38-p53 signaling that contributes to growth inhibition and the suppression of stress induced apoptosis. This gene is located in a chromosomal region known to be amplified in breast cancer. The amplification of this gene has been detected in both breast cancer cell line and primary breast tumors, which suggests a role of this gene in cancer development. [provided by RefSeq, Jul 2008]

**Protein Families:** Druggable Genome, Phosphatase

**Protein Pathways:** p53 signaling pathway

## **Product images:**



15% SDS-PAGE (3ug)