

Product datasheet for **AR51812PU-N**

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
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MGSSHHHHHH SSGLVPRGSH MVAFFAVCDG HGGREAAQFA REHFWGFIKK QKGFTSSEPA KVCAAIRKGF LACHLAMWKK LAEWPKTMTG LPSTSGTTAS VVIIRGMKMY VAHVGDSGVV LGIQDDPKDD FVRAVEVTQD HKPELPKERE RIEGLGGSVM NKSGVNRVWV KRPRLTHNGP VRRSTVIDQI PFLAVARALG DLWSYDFFSG EFVVSPEPDT SVHTLDPQKH KYIILGSDGL WNMIPPQDAI SMCQDQEEKK YLMGEHGQSC AKMLVNRALG RWRQRMLRAD N TSAIVICI
Tag:	His-tag
Predicted MW:	33.2 kDa
Concentration:	lot specific
Purity:	>90% by SDS - PAGE
Buffer:	Presentation State: This purified protein is available in a denatured form, making it less suitable for functional studies. Denatured proteins are better suited for applications like Western Blot (WB) or imaging assays. 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.
Storage:	Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	NP_003611
Locus ID:	8493
UniProt ID:	O15297
Cytogenetics:	17q23.2
Synonyms:	Protein phosphatase 1D magnesium-dependent, delta isoform, PP2C-DELTA, WIP1



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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: