

Product datasheet for **TP309328M**

PPM1D (NM_003620) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Homo sapiens protein phosphatase 1D magnesium-dependent, delta isoform (PPM1D), 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC209328 representing NM_003620 Red =Cloning site Green =Tags(s)

MAGLYSLGVSVFSDQGGRRKYMEDVTQIVVEPEPTAEEKPSRRSLSQPLPPRPSAALPGGEVSGKGPV
AAREARDPLPDAGASPAPSRCCRRRSSVAFFAVCDGHGGREAAQFAREHLWGFIKKQKGFTSSEPAKVCA
AIRKGFLACHLAMWKKLAEWPKTMTGLPSTSGTTASVVIIRGMKMYVAHVGDGSGVVLGIQDDPKDDFVRA
VEVTQDHPKPELKERERIEGLGGSVMNKSGVNRVWKRPRRLTHNGPVRRTVIDQIPFLAVARALGDLWS
YDFFSGEFVVSPEPDTSVHTLDPQKHKYIILGSDGLWNMIPPQDAISMCQDQEEKKYLGMGEHGQSCAKML
VNRALGRWRQMLRADNTSAIVICISPEVDNQGNTNEDELYLNLTDSPSYNSQETCMVTPSPCSTPPVK
SLEEDPWPRVNSKDHIPALVRSNAFSENFLEVS AEIARENQGVVIPS KDPEPLEENCAKALTRIHDLS
NNSLPIGLVPTNSTNTVMQKMLKSTPGQMKAEIERTPPTNFKRTLEESNSGPLMKKHRRNGLSRSSG
AQPASLPPTSQRKNSVKLTMRRRLRGQKKIGNPLLHQHRKTVCV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

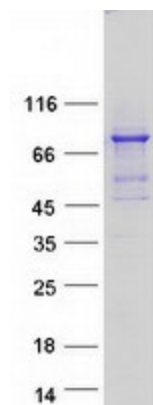
Tag:	C-Myc/DDK
Predicted MW:	66.5 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.



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Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<u>NP_003611</u>
Locus ID:	8493
UniProt ID:	<u>O15297, A0A0S2Z4M2</u>
RefSeq Size:	3163
Cytogenetics:	17q23.2
RefSeq ORF:	1815
Synonyms:	IDDGIP; JDVS; PP2C-DELTA; WIP1
Summary:	<p>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]</p>
Protein Families:	Druggable Genome, Phosphatase
Protein Pathways:	p53 signaling pathway

Product images:



Coomassie blue staining of purified PPM1D protein (Cat# [TP309328]). The protein was produced from HEK293T cells transfected with PPM1D cDNA clone (Cat# [RC209328]) using MegaTran 2.0 (Cat# [TT210002]).