

PPM1D, 98-375aa, Human, His tag, E.coli

Cat.NO.: TP03494

3th Edition

Synonyms:Protein phosphatase 1D magnesium-dependent, delta isoform, PP2C-DELTA, WIP1

Description:PPM1D also known as Protein phosphatase 1D magnesium-dependent, delta isoform. This protein 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. Recombinant human PPM1D, fused to His-tag at N-terminus, was expressed in E.coli.

Form:Liquid, In 20mM Tris-HCl (pH8.0) containing 10% glycerol

Molecular Weight:33.2kDa (299aa)

Sequences:

MGSSHHHHHSSGLVPRGSHMVAFFAVCDGHGGREAAQFAREHFWGFIKKQKGFTSSEPAKVCAAIRKGF LACH
LAMWKKLAEWPKTMTGLPSTSGTTASVVIIRGMKMYVAHVGDSGVV LGIQDDPKDDFVRAVEVTQDHKPELPKER
ERIEGLGGSVMNKSGVNRVVWKRPR LTHNGPVR RSTVIDQIPFLAVARALGDLWSYDFFSGEFVVSPEPDTSVHTL
DPQKHKYIILGSDGLWNMIPPQDAISMCQDQEEKKYL MGEHGQSCAKMLVNRALGRWRQRMLRADNTSAIVICI

Purity:> 95% by HPLC

Concentration:0.5mg/ml (determined by Bradford assay)

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.