

Recombinant human PPM1D protein

Catalog Number: ATGP2992

PRODUCT INFORMATION

Expression system

E.coli

Domain

98-375aa

UniProt No.

Q8NEA7

NCBI Accession No.

AAH33893

Alternative Names

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

PRODUCT SPECIFICATION

Molecular Weight

33.2 kDa (299aa)

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol

Purity

> 85% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE, Denatured

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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

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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*.

Amino acid Sequence

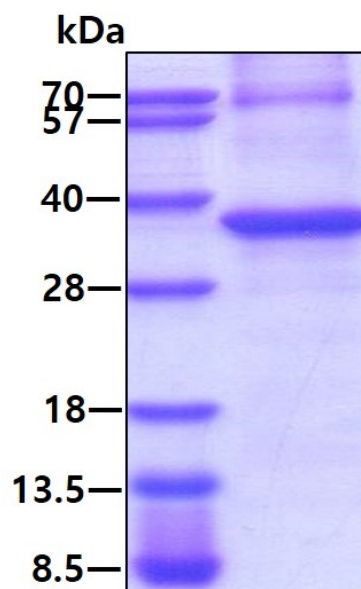
<MGSSHHHHHH SSGLVPRGSH M>VAFFAVCDG HGGREAAQFA REHFWGFIKK QKGFTSSEPA KVCAAIRKGF
LACHLAMWKK LAEWPKTMTG LPSTSGTTAS VVIIRGMKMY VAHVGD SGVV LGIQDDPKDD FVRAVEVTQD HKPELPKERE
RIEGLGGSVM NKSGVNRVWVW KRPRLTHNGP VRRSTVIDQI PFLAVARALG DLWSYDFFSG EFVVSPEPDT SVHTLDPQKH
KYIILGSDGL WNMIPPQDAI SMCQDQEEKK YLMGEHGQSC AKMLVNRALG RWRQRMLRAD N TSAIVICI

General References

Fiscella M., et al. (1997) Proc Natl Acad Sci U S A, 94 (12): 6048-53.

DATA

SDS-PAGE



3 μ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.