

Recombinant human PPM1F protein

Catalog Number: ATGP2281

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-454aa

UniProt No.

P49593

NCBI Accession No.

NP_055449

Alternative Names

Protein phosphatase 1F, CAMKP, CaMKPase, FEM-2, hFEM-2, POPX2

PRODUCT SPECIFICATION

Molecular Weight

52.2 kDa (477aa)

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 20% glycerol, 1mM DTT

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

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

PPM1F 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. This phosphatase can interact with Rho guanine nucleotide exchange factors (PIX), and thus block the effects of p21-activated kinase 1 (PAK), a protein kinase mediating biological effects downstream of Rho GTPases. Calcium/calmodulin-dependent protein kinase II gamma (CAMK2G/CAMK-II) is found to be one of the substrates of this phosphatase. Recombinant human PPM1F protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography

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techniques.

Amino acid Sequence

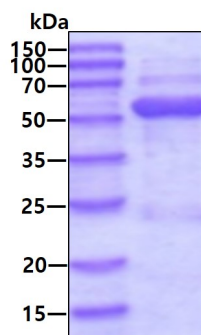
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SFFNRLWEVA GQWQKQVPLA ARASQRQWLV SIHAIRNTRR KMEDRHVSLP SFNQLFGLSD PVNRAYFAVF DGHGGVDAAR
YAAVHVHTNA ARQPELPTDP EGALREAFRR TDQMFLRKAK RERLQSGTTG VCALIAGATL HVAWLGDSQV ILVQQGQVVK
LMEPHRPERQ DEKARIEALG GFVSHMDCWR VNGTLAVSRA IGDVFQKPYV SGEADAASRA LTGSEDYLLL ACDGFFDVVP
HQEVVGLVQS HLTRQQGSGL RVAEELVAAA RERGSHDNIT VMVVFLRDPQ ELLEGGNQGE GDPQAEGRRQ DLPSSLPEPE
TQAPPRS

General References

Tan KM, Chan SL, et al. (2001). J Biol Chem. 276(47):44193-202.
Harvey BP, Banga SS, et al. (2004). J Biol Chem. 279(23):24889-98.

DATA

SDS-PAGE



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