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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

techniques.

Amino acid Sequence

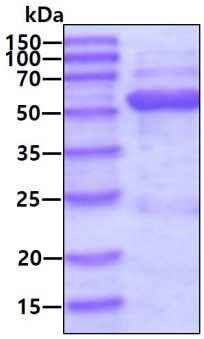
<MGSSHHHHHH SSGLVPRGSH MGS>MSSGAPQ KSSPMASGAE ETPGFLDTLL QDFPALLNPE DPLPWKAPGT VLSQEEVEGE LAELAMGFLG SRKAPPPLAA ALAHEAVSQL LQTDLSEFRK LPREEEEEEE DDDEEEKAPV TLLDAQSLAQ SFFNRLWEVA GQWQKQVPLA ARASQRQWLV SIHAIRNTRR KMEDRHVSLP SFNQLFGLSD PVNRAYFAVF DGHGGVDAAR YAAVHVHTNA ARQPELPTDP EGALREAFRR TDQMFLRKAK RERLQSGTTG 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.