

# Recombinant human PPME1 protein

Catalog Number: ATGP1150

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-386aa

### UniProt No.

Q9Y570

### NCBI Accession No.

NP\_057231

### Alternative Names

Protein phosphatase methylesterase 1, FLJ22226, PME-1

## PRODUCT SPECIFICATION

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### Molecular Weight

44.4 kDa (406aa) confirmed by MALDI-TOF

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 0.1M NaCl, 1mM DTT

### Purity

> 95% 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

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### Description

PPME1, also known protein phosphatase methylesterase-1 (PME1), catalyzes the demethylation and inactivation of protein phosphatase (PP2A), which is a multimeric phosphoserine/ threonine protein phosphatase associated with growth inhibition and cell cycle arrest. It can demethylate PP2A catalytic subunit in vitro and okadaic acid treatment is capable of inhibiting this reaction. It is conserved from yeast to human and contains a motif found in lipases having a catalytic triad activated serine as their active site nucleophile. Recombinant human PPME1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional

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chromatography.

## Amino acid Sequence

MGSSHHHHHHH SGLVPRGSH MSALEKSMHL GRLPSRPLP GSGGSQSGAK MRMGPGRKRD FSPVPWSQYF  
ESMEDVEVEN ETGKDTFRVY KSGSEGPVLL LLHGGGHSAL SWAVFTAII SRVQCRIVAL DLRSHGETKV KNPEDLSAET  
MAKDVGNVVE AMYGDLPPII MLIGHSMGGA IAVHTASSNL VPSLLGLCMI DVVEGTAMDA LNSMQNFLRG RPKTFKSLEN  
AIEWSVKSGQ IRNLESARVS MVGQVKQCEG ITSPEGSKSI VEGIIIIIIII DEEGSESISK RKKEDDMETK KDHPYTWRIE  
LAKTEKYWDG WFRGLSNLFL SCPIPKLLLL AGVDRLDKDL TIGQMKGKFK MQVLPQCGHA VHEDAPDKVA EAVATFLIRH  
RFAEPIGGFQ CVFPGC

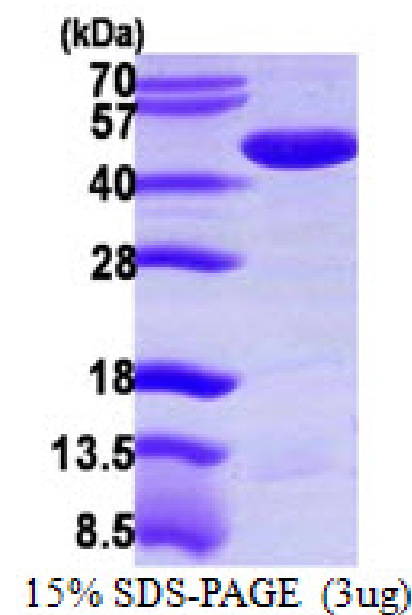
## General References

Ogris E. et al. (1999) J. Biol. Chem. 274: 14382-14391.

Gagnon S.N. et al. (2002) Biochem. J. 368:263-271.

## DATA

### SDS-PAGE



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