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Recombinant human PPME1 protein

Catalog Number: ATGP1150

PRODUCT INFORMATION

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

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

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

chromatography.

Amino acid Sequence

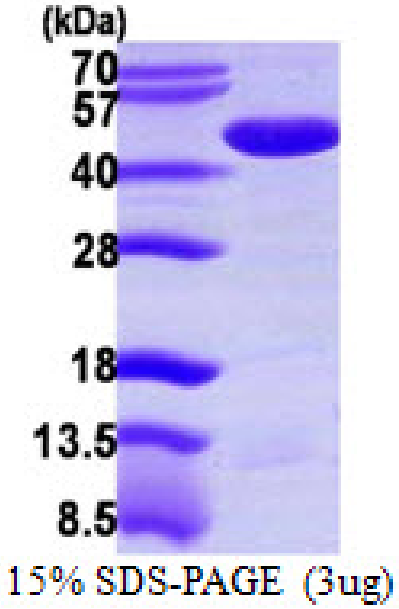
MGSSHHHHHH SSGLVPRGSH MSALEKSMHL GRLPSRPPLP GSGGSQSGAK MRMGPGRKRD FSPVPWSQYF ESMEDVEVEN ETGKDTFRVY KSGSEGPVLL LLHGGGHSAL SWAVFTAAII SRVQCRIVAL DLRSHGETKV KNPEDLSAET MAKDVGNVVE AMYGDLPPPI MLIGHSMGGA IAVHTASSNL VPSLLGLCMI DVVEGTAMDA LNSMQNFLRG RPKTFKSLEN AIEWSVKSGQ IRNLESARVS MVGQVKQCEG ITSPEGSKSI VEGIIEEEEE DEEGSESISK RKKEDDMETK KDHPYTWRIE LAKTEKYWDG WFRGLSNLFL SCPIPKLLLL AGVDRLDKDL TIGQMQGKFQ 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.