

## PPME1 Human

**Description:** PPME1 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 406 amino acids (1-386) and having a molecular mass of 44.4 kDa. The PPME1 is fused to a 20 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

Catalog #: ENPS-162

For research use only.

**Synonyms:** Protein phosphatase methylesterase 1, PME-1, FLJ22226, EC 3.1.1.

**Source:** E.coli.

**Physical Appearance:** Sterile Filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MSALEKSMHL GRLPSRPPLP  
GSGGSQSGAK MRMGPGRKRD FSPVPWSQYF ESMEDVEVEN ETGKDTFRVY KSGSEGPVLL  
LLHGGGHSAL SWAVFTAAII SRVQCRIVAL DLRSHGETKV KNPEDLSAET MAKDVGNVVE  
AMYGDLPPI MLIGHSMGGA IAVHTASSNL VPSLLGLCMI DVVEGTAMDA LNSMQNFLRG  
RPKTFKSLEN AI

**Purity:** Greater than 95% as determined by SDS-PAGE.

### Formulation:

The PPME1 solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 0.1M NaCl and 20% glycerol.

### Stability:

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

### Introduction:

PPME1 catalyzes the demethylation and inactivation of protein phosphatase (PP2A), a multimeric phosphoserine/ threonine protein phosphatase related to growth inhibition and cell cycle arrest. PPME1 can demethylate PP2A catalytic subunit in vitro and okadaic acid treatment can inhibit this reaction. It is conserved from yeast to human and holds a motif found in lipases having a catalytic triad activated serine as their active site nucleophile.

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