
Product Data Sheet

Product Name: PPME1 Human
 Cat. No.: GP22138
 Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Protein phosphatase methylesterase 1; PME-1; FLJ22226; EC 3.1.1.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MSALEKSMHL GRLPSRPPLP GSGGSQSGAK MRMGPGRKRD FSPVPWSQYF ESMEDVEVEN ETGKDTFRVY KSGSEGPVLL LLHGGGHSAL SWAVFTAII SRVQCRIVAL DLRSHGETKV KNPEDLSAET MAKDVGNVVE AMYGDLPPPI MLIGHSMGGA IAVHTASSNL VPSLLGLCFMI DVVEGTAMDA LNSMQNFLRG RPKTFKSLEN AIEWSVKSGQ IRNLESARVS MVGQVKQCEG ITSPEGSKSI VEGIIIEEEE DEEGSESISK RKKEDDMETK KDHPYTWRIE LAKTEKYWDG WFRGLSNLFL SCPIPLLLL AGVDRLDKDL TIGQMKGKFK MQVLPQCGHA VHEDAPDKVA EAVATFLIRH RFAEPIGGFQ CVFPGC		
Formulation	The PPME1 solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 0.1M NaCl and 20% glycerol.		

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.

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.

Caution: Product has not been fully validated for medical applications. For research use only.

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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Background

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.

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