
Product Data Sheet

Product Name: ACPP Mouse
 Cat. No.: GP26122
 Batch No.: 1

Product Data

Purity	>98%	Source	Sf9,Baculovirus cells.
Physical Appearance	solid	Shipping Condition	withIcePacks
Synonyms	acid phosphatase, prostate, ACP3, ACP-3, ACPP, EC 3.1.3.2, PAP, Prostatic Acid Phosphatase, prostatic acid phosphatase, 5-nucleotidase, 5'-NT, Acid phosphatase 3, Ecto-5'-nucleotidase, Fluoride-resistant acid phosphatase, FRAP, Thiamine monophosphatase, TMPase, A030005E02Rik, Lap, PAP, Ppal.		
Amino Acid Sequence	KELKFVTLVF RHGDRGPIET FPTDPITSS WPQGFGQLTQ WGMEQHYELG SYIRKRYGRF LNDTYKHDQI YIRSTDVDRT LMSAMTNLAA LFPPEGISIW NPRLWQPIP VHTVSLSEDR LLYLPFRDCP RFEELKSETL ESEEFKRLH PYKSFLDTLS SLSGFDDQDL FGIWSKVYDP LFCESVHNFT LPSWATEDAM IKLKESELS LLSLYGIHKQ KEKSRLQGGV LVNEILKNMK LATQPQKYKK LVMYSAHDTT VSGLQMALDV YNGVLPPYAS CHMMELYHDK GGHFVEMYR NETQNEPYPL TLPGCTHSCP LEKFAELLDV VISQDWATEC MATSSHQGRN HHHHHH.		
Formulation	The ACPP solution (0.5mg/ml) contains 10% Glycerol and Phosphate-Buffered Saline (pH 7.4).		

Introduction

Prostatic Acid Phosphatase or ACPP is part of a family of proteins called histidine acid phosphatase. ACPP enhances the hydrolyzation of many phosphate monoesters and proteins that are phosphorylated. In order to function best, ACPP needs a range of range of 4-6 pH, furthermore, L(+)-tartrate inhibits ACPP's catalyzation. This enzyme can act as a lipid phosphatase as well and can inhibit lysophosphatidic acid in seminal plasma.

Biological Activity

Specific activity is >80,000 unit/mg, and is defined as the amount of enzyme that

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Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

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

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hydrolyze 1.0nmole of pnitrophenyl phosphate (pNPP) per minute at pH 5.0 at 37C.

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.

Background

ACPP Mouse produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 356 amino acids (32-381 aa) and having a molecular mass of 41.3kDa. ACPP is fused to a 6 amino acid His tag at C-terminus and purified by proprietary chromatographic techniques.

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