Creative Enzymes®

Prostatic acid phosphatase from Human, recombinant

Cat. No. NATE-1673

Lot. No. (See product label)

Introduction

Description	ACPP, also known as prostatic acid phosphatase isoform PAP, is a type I integral membrane protein of the plasma membrane and lysosomes, and a secreted form also exists. The concentration of ACPP is elevated in the circulation of prostate cancer patients, making the enzyme a marker for the progression of prostate cancer. Recombinant human ACPP, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Synonyms	Prostatic acid phosphatase; PAP; prostatic specific acid phosphatase; PSAP; EC 3.1.3.2; ACP; Acid Phos; 5'-nucleotidase; 5'-NT; Ecto-5'-nucleotidase; Thiamine monophosphatase; TMPase; PAPf39; ACPP; ACP-3, ACP3

Product Information

Species	Human
Source	Baculovirus
Form	Liquid
EC Number	EC 3.1.3.2
CAS No.	9001-77-8
Molecular Weight	41.8 kDa
Purity	> 95% by SDS-PAGE
Activity	>100,000 units/mg
Concentration	0.5 mg/ml
Endotoxin Level	< 1.0 EU per/μg
Unit Definition	One unit is defined as the amount of enzyme that hydrolyze 1.0 nmoles of p-nitrophenyl phosphate (pNPP) per minute at pH 5.0 at 37°C.

Storage and Shipping Information

Storage	Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -70°C. Avoid repeated freezing and thawing cycles.