cellsciences.com

ACP3
Native Human Prostatic Acid Phosphatase

Catalog No.	CSI14629A CSI14629B	**Quantity:**	1 KU 5 KU

Alternate Names: Prostatic acid phosphatase, PAP, 5'-nucleotidase, 5'-NT, Acid phosphatase 3, Ecto-5'-nucleotidase, Protein tyrosine phosphatase ACP31, Thiamine monophosphatase, TMPase

Description: Prostatic Acid Phosphatase is a phosphomonoesterase, an enzyme that cleaves phosphate groups from other molecules during digestion. Different organs produce different forms of acid phosphatase. The serum levels of which can be used as a diagnostic for disease in the corresponding organs. This form, human Prostatic Acid Phosphatase, is specific to human prostate. Acid Phosphatases are stored in lysosomes and function upon fusion with endosomes. The acidic environment of the endosome is required for function.

UniProt ID: P15309

Molecular Weight: ~100 kDa

Source: Human Seminal Fluid

Formulation: Lyophilized from 50 mM sodium citrate, 75 mM sodium chloride, pH 6.5

Purity: Partially purified

Appearance: White to off-white solid

Solubility: Clear, colorless solution at 10.0 mg/ml in saline

Concentration: ≥ 0.20 mg protein/mg solid, by Coomassie, lot specific

Biological Activity: 5-10 U/mg solid (Dimension™ Clinical Chemistry System), lot specific
One unit will catalyze the hydrolysis of 1 mole of thymolphthalein monophosphate to thymolphthalein and phosphate per minute at pH 5.6 and 37°C

Specific Activity: > 30 U/mg protein, lot specific

Ammonia: ≤ 0.1 μmole/mg solid

Reconstitution: Centrifuge vial prior to reconstitution to consolidate contents and ensure full recovery.

Storage & Stability: Store as supplied at -20°C to -80°C for up to 1 year. Following reconstitution, aliquot and refreeze.

Certification: Non-reactive for HIV-1/HCV/HBV by NAT; Syphilis, HBcAg, HBsAg, HCV Ab, HIV-1&2 Ab and RPR by currently approved FDA methods. However, because no test method can offer complete assurance that infectious agents are absent, this material should be handled at Bio-Safety Level 2 (BSL 2) as recommended for potentially infectious human serum or blood specimen in the CCD/NIH manual "Biosafety in Microbiological and Biomedical Laboratories", 2009.

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

Cell Sciences®
65 Parker Street
Unit 11
Newburyport, MA 01950

Toll Free: 888-769-1246
Phone: 978-572-1070
Fax: 978-992-0298

E-mail: info@cellsciences.com
Website: www.cellsciences.com