

Acid Phosphatase Activity Colorimetric Assay Kit

Cat. No. Kit-2280 **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Acid phosphatases (AP) dephosphorylate phosphate groups from phosphate esters under acid conditions. Different acid phosphatase isozymes are found in different organs, and their serum levels are used as a diagnostic for disease in the corresponding organs. Elevated prostatic acid phosphatase levels may indicate the presence of prostate cancer and elevated tartrate-resistant acid phosphatase levels may indicate the bone disease. Acid Phosphatase Assay Kit is a high sensitivity, simple, direct and HTS-ready colorimetric assay designed to measure AP activity in serum and other samples. It is suitable for research and drug discovery. The kit uses p-nitrophenyl phosphate (pNPP) as a phosphatase substrate which turns yellow ($\lambda_{\text{max}} = 405 \text{ nm}$) when dephosphorylated by AP. The kit can detect μU acid phosphatase activity in samples.

Applications

Phosphate concentrations between 1 μM and 1 mM, with a lower limit of detection of approximately 0.1 nmol, can be directly determined.

Storage

-20°C

Shipping

Gel Pack

Size

500 assays

Kit Components

AP Assay Buffer; pNPP Substrate (10 TAB); AP Enzyme; Stop Solution

Target Species

Mammalian

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Detection method	Absorbance (405 nm)
Features & Benefits	Simple procedure; takes ~ 3 hours; Fast and convenient; The assay is sensitive and stable; The TUNEL-based assay kit provides complete components including positive and negative control cells for convenient detection of DNA fragmentation in cultured cells and tissue sections.

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