CREATIVE BIOMART®
Assay Kit

Acid Phosphatase Activity Colorimetric Assay Kit

Product Information

Cat

Kit-2280

Cat.No. Kit-2280

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 (λmax = 405 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

Tel: 1-631-559-9269 1-516-512-3133
Email:info@creative-biomart.org
Fax:1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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Mammalian

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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