



Acid Phosphatase Activity Colorimetric Assay Kit

Product Information

Cat

Kit-2280

Cat.No.

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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 ($\lambda_{max} = 405 \text{ nm}$) 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



Acid Phosphatase Activity Colorimetric Assay Kit

Target Species

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.
