Acid Phosphatase Activity Colorimetric Assay Kit

Cat. No. Kit-0038 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Phosphate concentrations between 1 μM and 1 mM, with a lower limit of detection of approximately 0.1 nmol, can be directly determined. (500 assays) The assay detects acid phosphatase (AP) activity conveniently in various biological samples.
Size	500 assays
Description	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 Acid Phosphatase Activity 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.
Target Species	Mammalian
Usage	This product is furnished for LABORATORY RESEARCH USE ONLY. Not for

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

	diagnostic or therapeutic use.
Kit Components	AP Assay BufferpNPP Substrate (10 TAB)AP EnzymeStop Solution
Detection method	Colorimetric
Compatible Sample Types	Cell Culture SupernatantsPlasmaSerumTissue LysatesUrineCell Lysates

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