CREATIVE BIOMART®
Assay Kit

# Alkaline Phosphatase Assay Kit

## Product Information

**Cat.No.** Kit-0079

**Product Overview**

Alkaline Phosphatase Assay Kit is a quantitative fluorimetric determination of alkaline phosphatase at FL360/450 nm.

**Description**

Alkaline phosphatase (ALP) catalyzes the hydrolysis of phosphate esters in an alkaline environment, resulting in the formation of an organic radical and inorganic phosphate. In mammals, this enzyme is found mainly in the liver and bones. Marked increase in serum ALP levels, a disease known as hyperalkalinephosphatasemia, has been associated with malignant biliary obstruction, primary biliary cirrhosis, primary sclerosing cholangitis, hepatic lymphoma and sarcoidosis.Simple, direct and automation-ready procedures for measuring ALP activity in serum are becoming popular in Research and Drug Discovery. This improved method utilizes 4-methylumbelliferyl phosphate that is hydrolyzed by ALP into a highly fluorescent product 4-methylumbelliferone. The rate of the fluorescence increase is directly proportional to the enzyme activity.

**Applications**

Direct Assays: ALP activity in serum, plasma and other sources.Characterization and Quality Control for ALP production.Drug Discovery: high-throughput screen for ALP modulators.

**Usage**

For research use only (RUO)

**Storage**

Store at -20°C. Shelf life of 2 years after receipt.

**Kit Components**

Reagent(pH 10.5) 14 mL100x Standard 120 µL

**Detection method** Fluorimetric

**Compatible Sample Types**

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# Alkaline Phosphatase Assay Kit

Plasma, Serum

**Features & Benefits**

High sensitivity and wide linear range. Use 10 µL sample. Detection limit of 0.02 U/L (20 min reaction).Homogeneous and simple procedure. Simple "mix-and-measure" procedure allows reliable quantitation of ALP activity within 20 minutes.Robust and amenable to HTS. All reagents are compatible with high- throughput liquid handling instruments.

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