CREATIVE BIOMART®
Assay Kit

Alkaline Phosphatase Fluorometric Assay Kit

Product Information

Cat.No. Kit-0080

Product Overview

Alkaline Phosphatase Assay Kit (Fluorometric) is used for detecting ALP activity.

Description

Alkaline phosphatase (ALP) catalyzes the hydrolysis of phosphate esters in alkaline buffer and produces an organic radical and inorganic phosphate. The change in alkaline phosphatase level and activity is associated with a lot of diseases in the liver and bones. Alkaline phosphatase is also a popular enzyme conjugated to secondary antibody in ELISA. In the Alkaline Phosphatase Assay Kit (Fluorometric), ALP cleaves the phosphate group of the non-fluorescent 4-Methylumbelliferyl phosphate disodium salt (MUP) substrate resulting in an intense fluorescent signal (Ex/Em = 360nm/440nm). The kit is an ultra sensitive, simple, direct and HTS-ready assay designed to measure ALP activity in serum and bio-samples with detection sensitivity ~1 μU, more sensitive than colorimetric assays. The kit is suitable for both research and drug discovery.

Target Species

Mammals

Usage

For research use only (RUO)

Storage

Store the kit at -20°C, protect from light. Allow Assay Buffer to warm to room temperature before use. Briefly centrifuge vials prior to opening. Read the entire protocol before performing the assay.

Kit Components

ALP Assay Buffer 100 mLMUP Substrate 1 vialALP Enzyme 1 vialStop Solution 25 mL

Detection method Fluorometric

Compatible Sample Types

Biological Fluid, Cell Lysate, Culture Medium, Plasma, Serum, Tissue Lysate, Urine

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