CREATIVE BIOMART®
Assay Kit

pNPP Phosphatase Assay Kit

Product Information

Cat.No. Kit-0713

Product Overview

pNPP Phosphatase Assay Kit is a colorimetric determination of phosphatase activity at 405 nm.

Description

Para-nitrophenyl phosphate (pNPP) is a chromogenic substrate for most phosphatases such as alkaline phosphatases, acid phosphatases, protein tyrosine phosphatases and serine/threonine phosphatases. The reaction yields para-nitrophenol, which becomes an intense yellow soluble product under alkaline conditions and can be conveniently measured at 405 nm on a spectrophotometer.

Applications

Enzyme Activity Assay and Quality Control for phosphatase production.Characterization of Kinetics of phosphatase reaction.Drug Discovery: high-throughput screen for phosphatase inhibitors.

Usage

For research use only (RUO)

Storage

Store Reagent at -20°C and other components at 4°C.Shelf life: 12 months after receipt.

Kit Components

Reagent 280 μLAssay Buffer 25 mLStop Solution 25 mL

Detection method Colorimetric

Features & Benefits

High sensitivity and wide linear range. The detection limit is generally 3 ng phosphatase or below.Homogeneous and simple procedure. No wash or reagent transfer steps are involved. The assay can be completed within 30 minutes.Robust and amenable to HTS. All reagents are compatible with highthroughput liquid handling instruments.

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