CREATIVE BIOMART®
Assay Kit

pNPP Phosphatase Assay Kit

Product Information

Cat

Kit-2458

Cat.No. Kit-2458

Product Overview

p-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. This homogeneous "mix-and-measure" assay involves simply adding a single reagent to the phosphatase and measuring the product formation on an absorbance reader. The assay can be conveniently performed in cuvettes, tubes or multi-well plates at either room temperature or 37°C.

Storage

4, -20°C

Shipping

RT

Size

500 tests

Detection method OD405nm

Compatible Sample Types

Protein phosphatases

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.

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Robust and amenable to HTS. All reagents are compatible with high-throughput liquid handling instruments.

Assay time
30 min
Sensitivity
3 ng

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