

## 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  $\mu$ L Assay Buffer 25 mL Stop 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



CREATIVE BIOMART®  
Assay Kit

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compatible with highthroughput liquid handling instruments.

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Tel: 1-631-559-9269 1-516-512-3133

Fax: 1-631-938-8127

Email: [info@creative-biomart.org](mailto:info@creative-biomart.org)

45-1 Ramsey Road, Shirley, NY 11967, USA