CREATIVE BIOMART®
Assay Kit

Phosphate Fluorometric Assay Kit

Product Information

Cat.No. Kit-0687

Product Overview

Phosphate Assay Kit (Fluorometric) provides a sensitive, easy, quick means of assessing phosphate over a wide range of concentrations. In the assay, inorganic phosphate reacted with maltose to produce glucose in the present of a special enzyme. The glucose is specifically oxidized to generate a product that reacts with the OxiRed probe to generate fluorescence (Ex/Em=535/587nm). The kit can be used to detect Pi produced through reactions involving ATPases, GTPases, 5-nucleotidase, protein phosphatases, acid and alkaline phosphatases, and phosphorylase, etc. from a variety of samples. Glucose background can be eliminated by doing a glucose control.

Size

100 tests

Description

Inorganic phosphate (Pi) is one of the most important ions in biological systems. It functions in a variety of roles. One of the most important roles is as a molecular switch, turning enzyme activity on and off through the mediation of the various protein kinases and phosphatases in biological systems. A highly sensitive assay is desired to monitor Pi in variety samples or monitor Pi changes during kinase and phosphatase reactions.

Applications

Functional Studies more details

Storage

Store at -20°C.

Kit Components

Components: Identifier; Converter: Blue; Developer: Green; Phosphate Assay Buffer: WM; Phosphate Standard: Yellow; Phosphate Substrate: Purple; PicoProbe (in DMSO): Blue

Compatible Sample Types

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CREATIVE BIOMART®
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Phosphate Fluorometric Assay Kit

Urine, Serum, Plasma, Other biological fluids, Tissue Extracts, Cell Lysate
Assay time
2h 00m
Sensitivity
>0.4 μM

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