CREATIVE BIOMART®
Assay Kit

Pyrophosphate Fluorometric Assay Kit

Product Information

Cat.No. Kit-0718

Product Overview

Pyrophosphates (PPi) are produced by a number of biochemical reactions, such as ATP hydrolysis, DNA and RNA polymerizations, cyclic AMP formation by the enzyme adenylate cyclase and the enzymatic activation of fatty acids to form their coenzyme A esters. Pyrophosphate Assay Kit (Fluorometric) provides the most robust spectrophotometric method for the measurement of pyrophosphate. It uses a proprietary fluorogenic pyrophosphate sensor that has its fluorescence intensity proportionally dependent upon the concentration of pyrophosphate. assay is much easier and more robust than enzyme-coupling pyrophosphate methods, which require at least two enzymes for their pyrophosphate detections. Due to its direct measurement of pyrophosphate, this kit is ideal for screening inhibition or activities of enzymes that consume or generate pyrophosphate. The assay is an optimized mix-and-read assay and can be performed in a convenient 96-well or 384-well microtiter-plate format. The kit provides all the essential components for assaying pyrophosphate.

Size

2 x 96 tests

Description

This product measures PPi formation at Ex/Em316/456 nm.If your instrument has filters for Ex/Em370/470 nm, we recommend using Pyrophosphate Assay Kit II (Fluorometric) .

Applications

Functional Studies more details

Storage

Store at -20°C.

Kit Components

Components: 2 x 96 tests; Assay Buffer: 1 x 25ml; DMSO: 1 x 200µl; PPi Sensor: 1 vial; Pyrophosphate

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Standard (50mM): 1 x 1ml

Compatible Sample Types

Urine, Serum, Plasma, Cell culture extracts, Adherent cells, Suspension cells, Tissue Lysate

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