

Pyrophosphate Fluorometric Assay Kit II

Cat. No. Kit-0719 Lot. No. (See product label)

SPECIFICATION

Product Overview

Pyrophosphate (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 II (Fluorometric) provides the most robust spectrophotometric method for the measurement of pyrophosphate. It uses our proprietary fluorogenic pyrophosphate sensor that has its fluorescence intensity proportionally dependent upon the concentration of pyrophosphate. Our 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 with enhanced selectivity to 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/Em370/470 nm. If your instrument has filters for Ex/Em316/456 nm, we recommend using Pyrophosphate Assay Kit (Fluorometric) .

Applications

Functional Studies more details

Target Species

Reacts with: Human; Predicted to work with: all Mammals

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Storage	Store at -20°C.
Kit Components	Components: 2 x 96 tests; Assay Buffer: 1 x 25ml; DMSO: 1 x 100 μ l PPI Sensor: 1 vial; Pyrophosphate Standard (50mM): 1 x 1ml
Compatible Sample Types	Cell culture extracts, Tissue Extracts
Assay time	0h 10m
Sensitivity	>1 μ M

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