CREATIVE BIOMART®
Assay Kit

Phospholipase D (PLD) Activity Colorimetric Assay Kit

Product Information

Cat

Kit-2294

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Product Overview

Phospholipase D (PLD) is a key player in phospholipid metabolism. PLD hydrolyzes the phosphodiester bond of the glycerophospholipids, resulting in the production of phosphatidic acid and a free headgroup. PLD activity regulates the actin cytoskeleton, vesicle trafficking for secretion and endocytosis, and receptor signaling. Abnormalities in PLD activity and expression have been associated with Alzheimers disease, stroke, cancer and other brain disorders. Phospholipase D Activity Assay Kit provides a simple and sensitive method of measuring PLD activity using colorimetry (OD 570 nm). In this assay, PLD cleaves choline fromPhosphatidylcholine. The free choline is then oxidized by PLD enzyme mix to generate an intermediate which reacts with PLD Probe to generate color (OD 570 nm). This high-throughput adaptable assay kit can detect PLD activity as low as 1.0 mU/ml in a variety of samples.

Applications

Measurement of PLD activity in various tissues/cells
Analyzing intracellular signaling
Screening of PLD inhibitors

Storage

-20°C

Concentration

Gel Pack

Shipping

Gel Pack

Size

Tel: 1-631-559-9269 1-516-512-3133
Email:info@creative-biomart.org
Fax:1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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Phospholipase D (PLD) Activity Colorimetric Assay Kit

100 assays

Kit Components

PLD Assay Buffer; PLD Probe (in DMSO); PLD Substrate; PLD Enzyme Mix (Lyophilized); Choline Standard (Lyophilized); PLD Positive Control (Lyophilized)

Detection method Absorbance (OD 570 nm)

Features & Benefits

Simple, rapid & convenient;
The assay can detect phospholipase D (PLD) Activity less than 1 mU/ml in various sample types.

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