CREATIVE BIOMART®
Assay Kit

Phospholipases A2 (calcium-dependent cytosolic) Assay Kit

Product Information

Cat.No. Kit-0698

Product Overview

Phospholipases A2 (calcium-dependent cytosolic) Assay Kit is a colorimetric method for assaying the activity of cPLA2.

Description

Phospholipases A2 (PLA2s) catalyze the hydrolysis of fatty acids at the sn-2 position of glycerophospholipids, yielding a free fatty acid and a lysophospholipid as products. The release of arachidonic acid from membrane phospholipids by these enzymes is believed to be the key step in the biosynthesis of eicosanoids. There are primarily three different kinds of PLA2s, they are secretory (sPLA2), calcium-dependent cytosolic (cPLA2), and calcium-independent (iPLA2) PLA2s. Of these three different types of enzymes, only the cPLA2 exhibits specificity towards arachidonic acid whereas all others can hydrolyze any fatty acid at the sn-2 position.

Usage

For research use only (RUO)

Storage

This kit will perform as specified if stored at -20°C and used before the expiration date indicated on the outside of the box.

Kit Components

cPLA2 Assay Buffer 1 vialDTNB/EGTA 4 vialsArachidonoyl Thio-PC (Substrate) 2 vialsBee venom PLA2 Control 1 vialBromoenol Lactone Solution 1 vial96-Well Solid Plate (Colorimetric Assay) 96 Wells96-Well Cover Sheet 1 cover

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