Phospholipase D (PLD) Activity Colorimetric Assay Kit

Cat. No. Kit-2294 **Lot. No.** (See product label)

SPECIFICATION

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	100 assays
Kit Components	PLD Assay Buffer; PLD Probe (in DMSO); PLD Substrate; PLD Enzyme Mix

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	(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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