

# Active Native *Arachis hypogaea* (peanut) Phospholipase D, Type II

**Cat. No.** PLD-18A    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Native Phospholipase D, Type II, was purified from <i>Arachis hypogaea</i> (peanut). CAS#9001-87-0
<b>Species</b>	<i>Arachis hypogaea</i>
<b>Source</b>	<i>Arachis hypogaea</i>
<b>Description</b>	Phospholipase D is a phospholipid hydrolyzing enzyme and an important component of receptor-mediated signal transduction responses and regulated secretion. Hydrolyzes the phosphate bonds of phospholipids and sphingomyelin to give the corresponding phosphatidic acid. Phospholipase D is involved in conferring drought susceptibility in peanuts, which increases the risk of aflatoxin contamination.
<b>Form</b>	lyophilized powder. Partially purified, lyophilized powder containing buffer salts.
<b>Bio-activity</b>	≥60 units/mg protein
<b>Purity</b>	Protein, ~30%
<b>Unit Definition</b>	One unit will liberate 1.0 μmol of choline from L-α-phosphatidylcholine (egg yolk) per hr at pH 5.6 at 30 °C.
<b>Applications</b>	Research has shown ADP-ribosylation factor regulation of phospholipase D is important in the release of nascent secretory vesicles from the trans-Golgi network. It

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has also been used in a study to investigate stimulation of Na<sup>+</sup>-Ca<sup>2+</sup> exchange activity in canine cardiac sarcolemmal vesicals.

**Notes**

Protein determined using biuret, unless otherwise indicated.

**Storage**

Store at -20 °C

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