Phosphatidylcholine Assay Kit (Colorimetric/Fluorometric) ab83377

Overview

Product name: Phosphatidylcholine Assay Kit (Colorimetric/Fluorometric)
Detection method: Colorimetric/Fluorometric
Sample type: Cell culture supernatant, Urine, Serum, Plasma, Other biological fluids, Tissue Extracts
Assay type: Quantitative
Sensitivity: > 0.1 nmol/well
Range: 0.1 nmol/well - 10 nmol/well
Assay time: 0h 40m

Product overview:
Phosphatidylcholine Assay Kit (Colorimetric/Fluorometric) (ab83377) is a simple convenient means of measuring phosphatidylcholine in a variety of biological samples. This assay uses an enzyme-coupled reaction to hydrolyze phosphatidylcholine to release choline, which subsequently oxidizes the OxiRed probe in order to generate fluorescence (Ex/Em 535 nm 587 nm) and absorbance (570 nm). This assay measures phosphatidylcholine in the range of 0.1 to 10 nmol per sample.

Visit our FAQs page for tips and troubleshooting.

Notes:
Phosphatidylcholine (PC) is a phospholipid which incorporates choline as the headgroup of the lipid. PC is a major constituent of biological membranes and is involved in cell signaling through release of choline by phospholipase D leaving the second messenger phosphatidic acid.

PC is present in serum at ~0.2-2.5 mM (~50-200 mg/dL).

Platform:
Microplate reader

Properties

Storage instructions: Store at -20°C. Please refer to protocols.

<table>
<thead>
<tr>
<th>Components</th>
<th>Identifier</th>
<th>100 tests</th>
</tr>
</thead>
<tbody>
<tr>
<td>OxiRed Probe in DMSO</td>
<td>Red</td>
<td>1 x 200µl</td>
</tr>
<tr>
<td>PC Assay Buffer</td>
<td>WM</td>
<td>1 x 25ml</td>
</tr>
<tr>
<td>PC Development Mix (Lyophilised)</td>
<td>Green</td>
<td>1 vial</td>
</tr>
</tbody>
</table>
Relevance

Phosphatidylcholine (PC) is a phospholipid which incorporates choline as the headgroup of the lipid. PC is a major constituent of biological membranes and is involved in cell signaling through release of choline by phospholipase D leaving the second messenger phosphatidic acid.

Images

Phosphatidylcholine levels measured fluorometrically in mouse tissue lysates (mg of extracted protein; background signal subtracted, mean of duplicates; +/- SD).

Phosphatidylcholine levels colorimetrically measured in cell lysates (background signal subtracted, mean of duplicates; +/- SD).

<table>
<thead>
<tr>
<th>Components</th>
<th>Identifier</th>
<th>100 tests</th>
</tr>
</thead>
<tbody>
<tr>
<td>PC Hydrolysis Enzyme (lyophilized)</td>
<td>Purple</td>
<td>1 vial</td>
</tr>
<tr>
<td>PC Standard (10 µmol) (Lyophilised)</td>
<td>Yellow</td>
<td>1 vial</td>
</tr>
</tbody>
</table>
Phosphatidylcholine levels colorimetrically measured in rat biological fluids (background signal subtracted, mean of duplicates; +/- SD).

Examples of Colorimetric and Fluorometric Phosphatidylcholine standard curves using ab83377.

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