

## Datasheet for ABIN5657765 **PDE1A ELISA Kit**



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### Overview

Quantity: 96 tests

Target: PDE1A

Reactivity: Human

Method Type: Sandwich ELISA

Detection Range: 0.312 ng/mL - 20 ng/mL

Minimum Detection Limit: 0.312 ng/mL

Application: ELISA

### Product Details

Sample Type: Tissue Homogenate

Analytical Method: Quantitative

Detection Method: Colorimetric

Specificity: This assay has high sensitivity and excellent specificity for detection of Phosphodiesterase 1A, Calmodulin Dependent (PDE1A). No significant cross-reactivity or interference between Phosphodiesterase 1A, Calmodulin Dependent (PDE1A) and analogues was observed.

Sensitivity: 0.126 ng/mL

### Target Details

Target: PDE1A

Alternative Name: Phosphodiesterase 1A, Calmodulin Dependent ([PDE1A Products](#))

## Target Details

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Background:	Gene Name: Phosphodiesterase 1A, Calmodulin Dependent Gene Aliases: hCam-1, 61 kDa Cam-PDE, Calcium/calmodulin-dependent 3',5'-cyclic nucleotide phosphodiesterase 1A
Gene ID:	5136
UniProt:	<a href="#">P54750</a>
Pathways:	<a href="#">Neurotrophin Signaling Pathway</a> , <a href="#">cAMP Metabolic Process</a> , <a href="#">G-protein mediated Events</a> , <a href="#">Interaction of EGFR with phospholipase C-gamma</a>

## Application Details

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Comment:	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5 % within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.
Assay Time:	3 h
Plate:	Pre-coated
Protocol:	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Phosphodiesterase 1A, Calmodulin Dependent (PDE1A). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Phosphodiesterase 1A, Calmodulin Dependent (PDE1A). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain Phosphodiesterase 1A, Calmodulin Dependent (PDE1A), biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm $\pm$ 10nm. The concentration of Phosphodiesterase 1A, Calmodulin Dependent (PDE1A) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Assay Precision:	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Phosphodiesterase 1A, Calmodulin Dependent (PDE1A) were tested 20 times on one plate, respectively Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Phosphodiesterase 1A, Calmodulin Dependent (PDE1A) were tested on 3 different plates, 8

## Application Details

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replicates in each plate.  $CV(\%) = SD/mean \times 100$

Intra-Assay:  $CV < 10\%$

Inter-Assay:  $CV < 12\%$

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Restrictions: For Research Use only

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## Handling

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Handling Advice: The Stop Solution is acidic. Do not allow to contact skin or eyes. Calibrators, controls and specimen samples should be assayed in duplicate. Once the procedure has been started, all steps should be completed without interruption.

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Storage: 4 °C, -20 °C

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Storage Comment: -20°C. Bring all reagents to room temperature before beginning test. The kit may be stored at 4°C for immediate use within two days upon arrival. Reseal any unused strips with desiccant pack. Minimize freeze/thaw cycles.

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Expiry Date: 4-8 months

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