

Datasheet for ABIN5657769 PDE5A ELISA Kit



Overview

Quantity:	96 tests
Target:	PDE5A
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	1.56 ng/mL - 100 ng/mL
Minimum Detection Limit:	1.56 ng/mL
Application:	ELISA

Product Details

Sample Type:	Plasma, Serum, Tissue Homogenate
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	This assay has high sensitivity and excellent specificity for detection of Phosphodiesterase 5A, cGMP Specific (PDE5A). No significant cross-reactivity or interference between Phosphodiesterase 5A, cGMP Specific (PDE5A) and analogues was observed.
Sensitivity:	0.56 ng/mL
Target Details	

Target:	PDE5A	
Alternative Name:	Phosphodiesterase 5A, cGMP Specific (PDE5A Products)	

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/3 | Product datasheet for ABIN5657769 | 07/25/2024 | Copyright antibodies-online. All rights reserved.

Target Details	
Background:	Gene Name: Phosphodiesterase 5A, cGMP Specific
	Gene Aliases: CGB-PDE, cGMP-binding cGMP-specific phosphodiesterase, cGMP-specific 3',5'-
	cyclic phosphodiesterase
Pathways:	Regulation of G-Protein Coupled Receptor Protein Signaling
Application Details	
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 5A,
	cGMP Specific (PDE5A). Standards or samples are then added to the appropriate microtiter
	plate wells with a biotin-conjugated antibody specific to Phosphodiesterase 5A, cGMP Specific
	(PDE5A). 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 5A, cGMP Specific (PDE5A), 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 5A, cGMP Specific (PDE5A) 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 5A, cGMP Specific (PDE5A) were tested 20 times on one plate, respectively
	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level
	Phosphodiesterase 5A, cGMP Specific (PDE5A) were tested on 3 different plates, 8 replicates in
	each plate. CV(%) = SD/meanX100
	Intra-Assay: CV<10%
	Inter-Assay: CV<12%
Restrictions:	For Research Use only

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/3 | Product datasheet for ABIN5657769 | 07/25/2024 | Copyright antibodies-online. All rights reserved.

Н	land	lina
11	ana	mig

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.
Storage:	4 °C,-20 °C
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.
Expiry Date:	4-8 months