

Datasheet for ABIN5653490

CYP11B1 ELISA Kit



Overview

Quantity:	96 tests
Target:	CYP11B1
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Detection Range:	0.156 ng/mL - 10 ng/mL
Minimum Detection Limit:	0.156 ng/mL
Application:	ELISA

Product Details

Sample Type:	Cell Lysate, Tissue Homogenate
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	This assay has high sensitivity and excellent specificity for detection of Cytochrome P450 11B1 (CYP11B1). No significant cross-reactivity or interference between Cytochrome P450 11B1 (CYP11B1) and analogues was observed.
Sensitivity:	0.064 ng/mL

Target Details

Target:	CYP11B1
Alternative Name:	Cytochrome P450 11B1 (CYP11B1 Products)

Target Details

Background:	Gene Name: Cytochrome P450 11B1
	Gene Aliases: CPN1, CYP11B, FHI, CYPXIB1, S11BH, 11-Beta-Hydroxylase, Cytochrome P450
	Family 11 Subfamily B Polypeptide 1, Steroid 11-beta-hydroxylase, Cytochrome P-450c11
Pathways:	Metabolism of Steroid Hormones and Vitamin D, Steroid Hormone Biosynthesis, Regulation of
	Systemic Arterial Blood Pressure by Hormones, C21-Steroid Hormone Metabolic Process,
	Carbohydrate Homeostasis
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 Cytochrome P450 11B1
	(CYP11B1). Standards or samples are then added to the appropriate microtiter plate wells with
	a biotin-conjugated antibody specific to Cytochrome P450 11B1 (CYP11B1). 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 Cytochrome P450 11B1
	(CYP11B1), 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 Cytochrome P450 11B1 (CYP11B1) 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
	Cytochrome P450 11B1 (CYP11B1) were tested 20 times on one plate, respectively
	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level
	Cytochrome P450 11B1 (CYP11B1) were tested on 3 different plates, 8 replicates in each plate
	CV(%) = SD/meanX100
	Intra-Assay: CV<10%
	Inter-Assay: CV<12%

Application Details

Restrictions:	For Research Use only
Handling	
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