

Datasheet for ABIN5653494 CYP1A1 ELISA Kit



Overview

Quantity:	96 tests
Target:	CYP1A1
Reactivity:	Rat
Method Type:	Sandwich ELISA
Detection Range:	0.312 ng/mL - 20 ng/mL
Minimum Detection Limit:	0.312 ng/mL
Application:	ELISA

Product Details

Alternative Name:

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 1A1 (CYP1A1). No significant cross-reactivity or interference between Cytochrome P450 1A1 (CYP1A1) and analogues was observed.
Sensitivity:	0.129 ng/mL
Target Details	
Target:	CYP1A1

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Cytochrome P450 1A1 (CYP1A1 Products)

Target Details	
Background:	Gene Name: Cytochrome P450 1A1 Gene Aliases: CYP1, AHH, AHRR, CP11, CYP1, P1-450, P450-C, P450DX, Cytochrome P450,Subfamily I(Aromatic Compound-Inducible),Polypeptide 1
Gene ID:	24296
UniProt:	P00185
Pathways:	Steroid Hormone Biosynthesis, Regulation of Lipid Metabolism by PPARalpha

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 1A1
	(CYP1A1). Standards or samples are then added to the appropriate microtiter plate wells with a
	biotin-conjugated antibody specific to Cytochrome P450 1A1 (CYP1A1). 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 1A1
	(CYP1A1), 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 1A1 (CYP1A1) 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 1A1 (CYP1A1) were tested 20 times on one plate, respectively
	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level
	Cytochrome P450 1A1 (CYP1A1) were tested on 3 different plates, 8 replicates in each plate.
	CV(%) = SD/meanX100
	Intra-Assay: CV<10%
	Inter-Assay: CV<12%

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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