

Datasheet for ABIN5656870 MTHFR ELISA Kit



Overview

Quantity:	96 tests
Target:	MTHFR
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	62.5 pg/mL - 4000 pg/mL
Minimum Detection Limit:	62.5 pg/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 Methylenetetrahydrof olate Reductase (MTHFR). No significant cross-reactivity or interference between Methylenetetrahydrofolate Reductase (MTHFR) and analogues was observed.
Sensitivity:	27.9 pg/mL
Target Details	

Target:	MTHFR
Alternative Name:	Methylenetetrahydrofolate Reductase (MTHFR Products)

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Target Details	
Background:	Gene Name: Methylenetetrahydrofolate Reductase
	Gene Aliases: 5,10-Methylenetetrahydrofolate Reductase(NADPH)
Gene ID:	4524
UniProt:	P42898
Pathways:	Methionine Biosynthetic Process
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 Methylenetetrahydrofolate
	Reductase (MTHFR). Standards or samples are then added to the appropriate microtiter plate
	wells with a biotin-conjugated antibody specific to Methylenetetrahydrofolate Reductase
	(MTHFR). 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 Methylenetetrahydrofolate Reductase (MTHFR), 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
	Methylenetetrahydrofolate Reductase (MTHFR) 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
	Methylenetetrahydrofolate Reductase (MTHFR) were tested 20 times on one plate, respectively
	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level
	Methylenetetrahydrofolate Reductase (MTHFR) 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