

Datasheet for ABIN5659137 **THFA ELISA Kit**



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Overview

Quantity: 96 tests

Target: THFA

Reactivity: Various Species

Method Type: Competition ELISA

Detection Range: 1.23 ng/mL - 100 ng/mL

Minimum Detection Limit: 1.23 ng/mL

Application: ELISA

Product Details

Sample Type: Cell Culture Supernatant, Cell Lysate, Plasma, Serum, Tissue Homogenate

Analytical Method: Quantitative

Detection Method: Colorimetric

Specificity: This assay has high sensitivity and excellent specificity for detection of Tetrahydrofolic Acid (THFA). No significant cross-reactivity or interference between Tetrahydrofolic Acid (THFA) and analogues was observed.

Sensitivity: 0.52 ng/mL

Target Details

Target: THFA

Alternative Name: Tetrahydrofolic Acid ([THFA Products](#))

Target Details

Target Type:	Chemical
Background:	Gene Name: Tetrahydrofolic Acid Gene Aliases: H4FA, THF, Tetrahydrofolate

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:	2 h
Plate:	Pre-coated
Protocol:	This assay employs the competitive inhibition enzyme immunoassay technique. A monoclonal antibody specific to Tetrahydrofolic Acid (THFA) has been pre-coated onto a microplate. A competitive inhibition reaction is launched between biotin labeled Tetrahydrofolic Acid (THFA) and unlabeled Tetrahydrofolic Acid (THFA) (Standards or samples) with the pre-coated antibody specific to Tetrahydrofolic Acid (THFA). After incubation the unbound conjugate is washed off. Next, avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. The amount of bound HRP conjugate is reverse proportional to the concentration of Tetrahydrofolic Acid (THFA) in the sample. After addition of the substrate solution, the intensity of color developed is reverse proportional to the concentration of Tetrahydrofolic Acid (THFA) in the sample.
Assay Precision:	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Tetrahydrofolic Acid (THFA) were tested 20 times on one plate, respectively Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Tetrahydrofolic Acid (THFA) were tested on 3 different plates, 8 replicates in each plate. $CV(\%) = SD/mean \times 100$ Intra-Assay: $CV < 10\%$ Inter-Assay: $CV < 12\%$
Restrictions:	For Research Use only

Handling

Handling Advice:	The Stop Solution is acidic. Do not allow to contact skin or eyes. Calibrators, controls and
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Handling

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