

General 5-Methyltetrahydrofolate (5-Me-THF) ELISA Kit | 5-Me-THF elisa kit

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CATALOG #
AAA22858

REACTIVITY
General

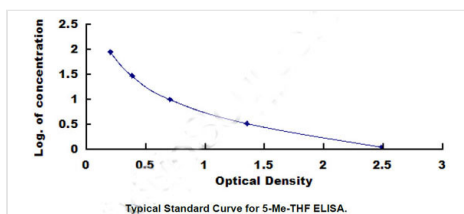
PRODUCT SYNONYMS

5-Methyltetrahydrofolate (5-Me-THF); General 5-Methyltetrahydrofolate (5-Me-THF) ELISA Kit; 5-Me-THFA; 5-Me-H4FA; 5-Me-THF; 5-Me-H4F; Levomefolic Acid; Metafolin; 5-Methyltetrahydrofolic Acid; L-Methylfolate; 5-Me-THF elisa kit

PRODUCT SPECIFICATIONS

Reactivity	General
Specificity	This assay has high sensitivity and excellent specificity for detection of 5-Me-THF. Cross-reactivity or interference between 5-Me-THF and analogues was observed.
Sequence Length	208
Assay Type	Competitive
Samples	Serum, plasma and other biological fluids
Detection Range	1.11-90ng/mL
Sensitivity	< 0.51ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level 5-Me-THF were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level 5-Me-THF were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	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.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for 5-Me-THF elisa kit	Principle of the Assay: This assay employs the competitive inhibition enzyme immunoassay technique. A monoclonal antibody specific to 5-Me-THF has been pre-coated onto a microplate. A competitive inhibition reaction is launched between biotin labeled 5-Me-THF analogues and unlabeled antigen (Standards or samples) with the pre-coated antibody. 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 5-Me-THF in the sample. After addition of the substrate solution, the intensity of color developed is reverse proportional to the concentration of 5-Me-THF in the sample.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	914573520
Molecular Weight	23,092 Da
NCBI Official Full Name	5-methyltetrahydrofolate, partial
UniProt Protein Name	5-methyltetrahydrofolate
UniProt Gene Name	OBRU01_06352

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/general-elisa-kits/5-methyltetrahydrofolate-5-me-thf/22858>