

## Datasheet for ABIN5656858 **MAT1A CLIA Kit**



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### Overview

Quantity:	96 tests
Target:	MAT1A
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Detection Range:	0.781 ng/mL - 50 ng/mL
Minimum Detection Limit:	0.781 ng/mL
Application:	ELISA

### Product Details

Sample Type:	Tissue Homogenate
Analytical Method:	Quantitative
Detection Method:	Chemiluminescent
Specificity:	This assay has high sensitivity and excellent specificity for detection of Methionine Adenosyltransferase I Alpha (MAT1a). No significant cross-reactivity or interference between Methionine Adenosyltransferase I Alpha (MAT1a) and analogues was observed.
Sensitivity:	0.02 ng/mL

### Target Details

Target:	MAT1A
Alternative Name:	Methionine Adenosyltransferase I Alpha ( <a href="#">MAT1A Products</a> )

## Target Details

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Background: Gene Name: Methionine Adenosyltransferase I Alpha  
Gene Aliases: MAT, SAMS, MATA1, SAMS1, AMS1, S-Adenosylmethionine Synthetase, S-adenosylmethionine synthase isoform type-1

Pathways: [Mitotic G1-G1/S Phases](#), [M Phase](#), [Ribonucleoside Biosynthetic Process](#), [Methionine Biosynthetic Process](#)

## Application Details

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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 - 3 h

Plate: Pre-coated

Protocol: The microplate provided in this kit has been pre-coated with an antibody specific to Methionine Adenosyltransferase I Alpha (MAT1a). Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to Methionine Adenosyltransferase I Alpha (MAT1a). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. Then the mixture of substrate A and B is added to generate glow light emission kinetics. Upon plate development, the intensity of the emitted light is proportional to the Methionine Adenosyltransferase I Alpha (MAT1a) level in the sample or standard.,

Assay Precision: Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Methionine Adenosyltransferase I Alpha (MAT1a) were tested 20 times on one plate, respectively  
Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Methionine Adenosyltransferase I Alpha (MAT1a) 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

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Handling Advice: Do not allow to contact skin or eyes. Calibrators, controls and specimen samples should be

## Handling

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assayed in duplicate. Once the procedure has been started, all steps should be completed without interruption.

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Storage: 4 °C,-20 °C

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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.

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Expiry Date: 4-8 months