

Rat S-adenosylmethionine synthase isoform type-2 (MAT2A) ELISA Kit

Catalog No: #EK9875

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Package Size: #EK9875-1 48T #EK9875-2 96T

Description

Product Name	Rat S-adenosylmethionine synthase isoform type-2 (MAT2A) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat (<i>Rattus norvegicus</i>)
Other Names	MATA2; MATII; SAMS2;
Accession No.	P18298
Uniprot	P18298
GeneID	171347;
Storage	<p>The stability of ELISA 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.</p> <p>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).</p>

Application Details

Detect Range:0.156-10 ng/mL

Sensitivity:0.054 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 μ L

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate MAT2A in samples. An antibody specific for MAT2A has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyMAT2A present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for MAT2A is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of MAT2A bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Methionine adenosyltransferase (EC 2.5.1.6) catalyzes the biosynthesis of S-adenosylmethionine (AdoMet) from methionine and ATP. AdoMet is the major methyl donor for many of the transmethylation reactions in the body.Three forms of MAT have been identified in mammalian tissues. MAT I and MAT III, which are encoded by the single-copy MAT1A gene, represent tetramers and dimers, respectively, formed from identical alpha-1 subunits and are synthesized primarily in the liver. The MAT2A promoter is highly GC rich, especially in the first 300 bp. The promoter contains several potential SP1-, v-myb-, and GATA-binding sites, as well as potential binding sites for C/EBP, HSF2, c-myb, and STATx.MAT2A promoter can efficiently drive expression from a reporter gene in both Jurkat and 293 cells.

Note: This product is for in vitro research use only