

Human S-Adenosylmethionine Synthase Isoform Type-1 (MAT1A) ELISA Kit | MAT1A elisa kit

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CATALOG # AAA331864	REACTIVITY Human
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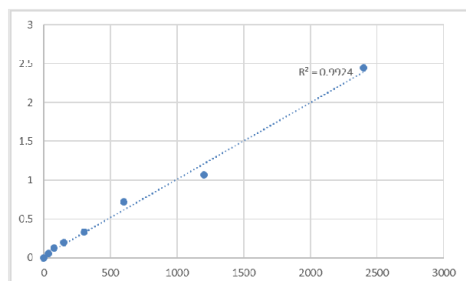
PRODUCT SYNONYMS

S-Adenosylmethionine Synthase Isoform Type-1 (MAT1A); Human S-Adenosylmethionine Synthase Isoform Type-1 (MAT1A) ELISA Kit; MAT1A; RP11-36D19.2; MAT; MATA1; SAMS; SAMS1; S-adenosylmethionine synthetase; MAT1A elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human S-adenosylmethionine synthase isoform type-1 (MAT1A) ELISA Kit has high sensitivity and excellent specificity for detection of Human MAT1A. No significant cross-reactivity or interference between Human MAT1A and analogues was observed.
Sequence Length	395
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human S-adenosylmethionine synthase isoform type-1 (MAT1A) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for MAT1A elisa kit	Description: This Human S-adenosylmethionine synthase isoform type-1 (MAT1A) ELISA Kit employs a two-site sandwich ELISA to quantitate MAT1A in samples. An antibody specific for MAT1A has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any MAT1A present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for MAT1A 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 MAT1A bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: MAT1a catalyzes a two-step reaction that involves the transfer of the adenosyl moiety of ATP to methionine to form S-adenosylmethionine and triphosphosphate, which is subsequently cleaved to PPI and Pi. S-adenosylmethionine is the source of methyl groups for most biological methylations. The encoded protein is found as a homotetramer (MAT I) or a homodimer (MAT III) whereas a third form, MAT II (gamma), is encoded by the MAT2A gene. Mutations in this gene are associated with methionine adenosyltransferase deficiency. The peptide maps of the 2 forms were possibly identical, although they showed different specific activities at physiologic concentrations of methionine. The findings suggested that the 2 isoforms are encoded by the same gene.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4557737
NCBI GeneID	4143
NCBI Accession #	NP_000420.1
NCBI GenBank Nucleotide #	NP_000420.1
UniProt Accession #	Q00266
NCBI Official Full Name	S-adenosylmethionine synthase isoform type-1
NCBI Official Synonym Full Names	methionine adenosyltransferase 1A
NCBI Official Symbol	MAT1A
NCBI Official Synonym Symbols	MAT; SAMS; MATA1; SAMS1
NCBI Protein Information	S-adenosylmethionine synthase isoform type-1
UniProt Protein Name	S-adenosylmethionine synthase isoform type-1
UniProt Gene Name	MAT1A
UniProt Synonym Gene Names	AMS1; MATA1; AdoMet synthase 1; MAT 1; MAT-I/III
UniProt Entry Name	METK1_HUMAN

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.