

Rat Hydroxymethylglutaryl-CoA synthase, mitochondrial (HMGCS2) ELISA Kit | HMGCS2 elisa kit

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CATALOG #
AAA245958

REACTIVITY
Rat

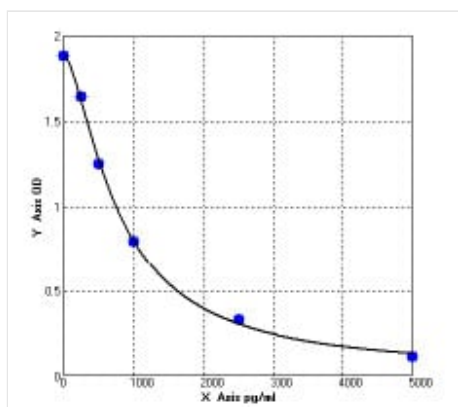
PRODUCT SYNONYMS

Hydroxymethylglutaryl-CoA synthase; mitochondrial (HMGCS2); Rat Hydroxymethylglutaryl-CoA synthase; mitochondrial (HMGCS2) ELISA Kit; HMGCS2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Samples	Serum, plasma, cell culture supernatants, body fluid and tissue homogenate
Assay Type	Quantitative Competitive
Sensitivity	1.0 pg/mL.
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for HMGCS2 elisa kit

Intended Uses: This HMGCS2 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Rat HMGCS2. This ELISA kit for research use only!

Principle of the Assay: HMGCS2 ELISA kit applies the competitive enzyme immunoassay technique utilizing a polyclonal anti-HMGCS2 antibody and an HMGCS2-HRP conjugate. The assay sample and buffer are incubated together with HMGCS2-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the HMGCS2 concentration since HMGCS2 from samples and HMGCS2-HRP conjugate compete for the anti-HMGCS2 antibody binding site. Since the number of sites is limited, as more sites are occupied by HMGCS2 from the sample, fewer sites are left to bind HMGCS2-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The HMGCS2 concentration in each sample is interpolated from this standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #	260656028
NCBI GeneID	3158
NCBI Accession #	NP_001159579.1
NCBI GenBank Nucleotide #	NM_001166107.1
Molecular Weight	50,050 Da
NCBI Official Full Name	hydroxymethylglutaryl-CoA synthase, mitochondrial isoform 2
NCBI Official Synonym Full Names	3-hydroxy-3-methylglutaryl-CoA synthase 2 (mitochondrial)
NCBI Official Symbol	HMGCS2
NCBI Protein Information	hydroxymethylglutaryl-CoA synthase, mitochondrial; HMG-CoA synthase; 3-hydroxy-3-methylglutaryl-Coenzyme A synthase 2 (mitochondrial)
UniProt Protein Name	Hydroxymethylglutaryl-CoA synthase, mitochondrial
UniProt Gene Name	HMGCS2
UniProt Synonym Gene Names	HMG-CoA synthase
UniProt Entry Name	HMCS2_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.

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Online datasheet: <https://stage.aaabiotech.com/rat-elisa-kits/hydroxymethylglutaryl-coa-synthase-mitochondrial-hmgcs2/245958>