

Rat 3-Hydroxy-3-methylglutaryl CoA reductase ELISA Kit | HMGR elisa kit

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CATALOG # AAA93186	REACTIVITY Rat
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PRODUCT SYNONYMS

3-Hydroxy-3-methylglutaryl CoA reductase; Rat 3-Hydroxy-3-methylglutaryl CoA reductase ELISA Kit; HMGR elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Assay Type	Sandwich
Detection Range	1.0-25ng/mL
Sensitivity	0.1ng/ml
Intended Uses	This HMG-CoA ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Rat HMG-CoA. This ELISA kit for research use only, not for therapeutic applications!
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for HMGR elisa kit	Principle of the Assay: HMG-CoA ELISA kit applies the competitive enzyme immunoassay technique utilizing a monoclonal anti-HMG-CoA antibody and an HMG-CoA-HRP conjugate. The assay sample and buffer are incubated together with HMG-CoA-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 HMG-CoA concentration since HMG-CoA from samples and HMG-CoA-HRP conjugate compete for the anti-HMG-CoA antibody binding site. Since the number of sites is limited, as more sites are occupied by HMG-CoA from the sample, fewer sites are left to bind HMG-CoA-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The HMG-CoA concentration in each sample is interpolated from this standard curve.
Product Categories/Family for HMGR elisa kit	Cardiovascular

NCBI AND UNIPROT INFORMATION

NCBI GI #	160358778
NCBI GeneID	15357

NCBI Accession #	NP_032281.2
NCBI GenBank Nucleotide #	NM_008255.2
Molecular Weight	97,040 Da
NCBI Official Full Name	3-hydroxy-3-methylglutaryl-coenzyme A reductase
NCBI Official Synonym Full Names	3-hydroxy-3-methylglutaryl-Coenzyme A reductase
NCBI Official Symbol	Hmgcr
NCBI Official Synonym Symbols	Red; HMG-CoAR
NCBI Protein Information	3-hydroxy-3-methylglutaryl-coenzyme A reductase; HMG-CoA reductase; 3-hydroxy-3-methylglutaryl-CoA reductase
UniProt Protein Name	3-hydroxy-3-methylglutaryl-coenzyme A reductase
UniProt Gene Name	Hmgcr
UniProt Synonym Gene Names	HMG-CoA reductase
UniProt Entry Name	HMDH_MOUSE

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/hmgcr-rat-elisa-kits/3-hydroxy-3-methylglutaryl-coa-reductase/93186>