

Rat Methylglyoxal ELISA Kit | MG elisa kit

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CATALOG #
AAA97532

REACTIVITY
Rat

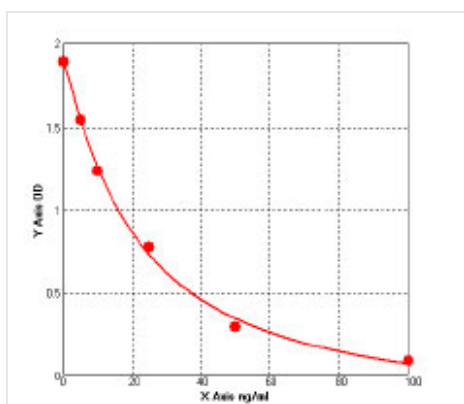
PRODUCT SYNONYMS

Methylglyoxal; Rat Methylglyoxal ELISA Kit; MG elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Samples	Serum, Plasma, Cell Culture Supernatants, Body Fluid And Tissue Homogenate
Assay Type	Quantitative Competitive
Sensitivity	1.0 ng/mL.
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for MG elisa kit

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

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

NCBI AND UNIPROT INFORMATION

NCBI GI #	328949861
NCBI GeneID	10433215
NCBI Accession #	YP_004367196.1
NCBI GenBank Nucleotide #	NC_015387.1
Molecular Weight	13,616 Da
NCBI Official Full Name	methylglyoxal synthase
NCBI Official Symbol	Marky_0332
NCBI Protein Information	methylglyoxal synthase
UniProt Protein Name	Methylglyoxal synthase
UniProt Gene Name	mgsA
UniProt Synonym Gene Names	Marky_0332; MGS
UniProt Entry Name	F2NPY5_MARHT

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/mg-rat-elisa-kits/methylglyoxal/97532>