

Rat Homocysteic acid, Hcy ELISA Kit | Hcy elisa kit

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CATALOG #
AAA79809

REACTIVITY
Rat

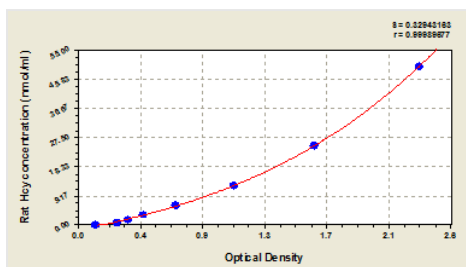
PRODUCT SYNONYMS

Homocysteic acid; Hcy; Rat Homocysteic acid; Hcy ELISA Kit; Hcy elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Sequence Length	163
Samples	Serum, plasma, tissue homogenates
Detection Range	0.78 nmol/ml-50 nmol/ml
Sensitivity	0.195 nmol/ml
Detection Wavelength	450 nm
Sample Volume	50-100ul
Preparation and Storage	Unopened test kits should be stored at 2 to 8 degree C upon receipt. Please refer to pdf manual for further storage instructions.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for Hcy elisa kit	Introduction: Homocysteine(Homocysteic acid)is a chemical compound with the formula HSCH₂CH₂CH(NH₂)CO₂H. It is a homologue of the naturally-occurring amino acid cysteine, differing in that its side-chain contains an additional methylene (-CH₂-) group before the thiol (-SH) group. Alternatively, homocysteine can be derived from methionine by removing the latter's terminal Cepsilon methyl group. Homocysteine can be recycled back into methionine or it can be permanently converted to cysteine via the transsulfuration pathway. Homocysteine is not obtained from the diet; it is a normal temporary and chemically reactive reaction product that can be measured in blood. Due to its high reactivity to proteins, it is almost always bound to proteins, 'thiolating' (and thus degrading) most notably the lysine and cysteine components thereof. This can permanently affect protein function. In blood, it is found bound to albumin and to hemoglobin. It affects enzymes with cysteine-containing active sites; for example, it inhibits lysyl oxidase a key enzyme in the production of collagen and elastin, two main structural proteins in artery, bone and skin. Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to Hcy. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated polyclonal antibody preparation specific for Hcy and Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. Then a TMB (3,3',5,5' tetramethyl-benzidine) substrate solution is added to each well. Only those wells that contain Hcy, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of a sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450 nm +/- 2 nm. The concentration of Hcy in the samples is then determined by comparing the O.D. of the samples to the standard curve.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	729692
UniProt Accession #	P39442; Q9UWL3
Molecular Weight	17,222 Da
NCBI Official Full Name	Halocyanin
UniProt Protein Name	Halocyanin
UniProt Gene Name	hcy
UniProt Entry Name	HCY_NATPH

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.