

Human Cystathionine gamma-Lyase (CTH) ELISA Kit | CTH elisa kit

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CATALOG #
AAA331967

REACTIVITY
Human

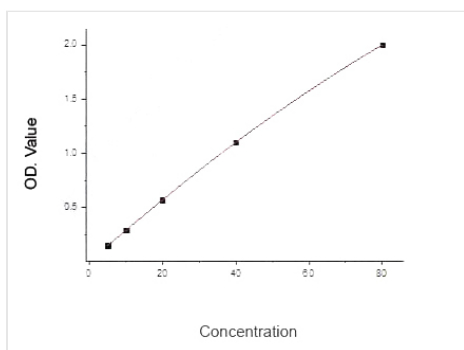
PRODUCT SYNONYMS

Cystathionine gamma-Lyase (CTH); Human Cystathionine gamma-Lyase (CTH) ELISA Kit; CTH; MGC9471; cystathionase; cysteine desulphydrase; gamma-cystathionase; homoserine deaminase; homoserine dehydratase; CTH elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Cystathionine gamma-lyase (CTH) ELISA Kit has high sensitivity and excellent specificity for detection of Human CTH. No significant cross-reactivity or interference between Human CTH and analogues was observed.
Sequence Length	405
Assay Type	Sandwich
Samples	Human serum, cell culture supernates and other biological fluids
Detection Range	5 umol/L - 80 umol/L
Sensitivity	< 0.5umol/L
Intra-assay Precision	Four samples of known concentration were tested twenty times on one plate to assess intra-assay precision. The CV (%)?9%.
Inter-assay Precision	Three samples of known concentration were tested in twenty separate assays to assess inter-assay precision. Assays were performed by at least three technicians using two lots of components. The CV (%)?11%.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for CTH elisa kit	Background: CSE is an enzyme which breaks down cystathionine into cysteine and alpha-ketobutyrate. Pyridoxal phosphate is a prosthetic group of this enzyme. The bioavailability of cysteine is rate-limiting for the hepatic synthesis of glutathione. Cysteine is provided through either the diet or the transsulfuration pathway, in which cystathionine derived from methionine is transformed into cysteine by cystathionine gamma-lyase. Mutant mice lacking CTH displayed pronounced hypertension and diminished endothelium-dependent vasorelaxation. Cystathionine was physiologically activated by calcium and calmodulin, which is a mechanism for H2S formation in response to vascular activation. Principle of the Assay: Human Cystathionine gamma-lyase (CTH) ELISA Kit employs a two-site sandwich ELISA to quantitate CTH in samples. An antibody specific for CTH has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any CTH present is bound by the immobilized antibody. After removing any unbound substances, HRP-Conjugated Human CTH detection antibody is added to the wells. Following a wash to remove any unbound HRP reagent, a Chromogen solution is added to the wells and color develops in proportion to the amount of CTH bound in the initial step. The color development is stopped and the intensity of the color is measured.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	27735163
NCBI GeneID	1491
UniProt Accession #	P32929
NCBI Official Full Name	Cystathionine gamma-lyase
NCBI Official Synonym Full Names	cystathionine gamma-lyase
NCBI Official Symbol	CTH
NCBI Protein Information	cystathionine gamma-lyase
UniProt Protein Name	Cystathionine gamma-lyase
UniProt Gene Name	CTH
UniProt Entry Name	CGL_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.