

Rat Angiotensin I Converting Enzyme ELISA Kit | ACE I elisa kit

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CATALOG #
AAA87675

REACTIVITY
Rat

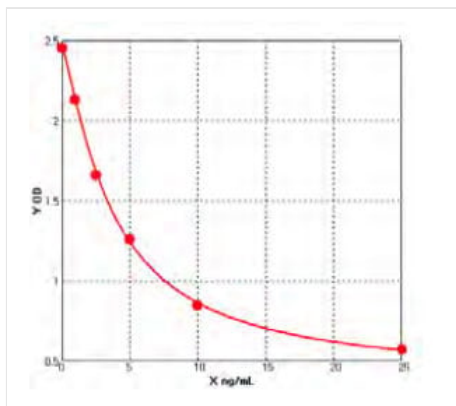
PRODUCT SYNONYMS

Angiotensin I Converting Enzyme; Rat Angiotensin I Converting Enzyme ELISA Kit; Angiotensin I Converting Enzyme (Rat); ACE I elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of ACE. No significant cross-reactivity or interference between ACE and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between ACE and all the analogues, therefore, cross reaction may still exist in some cases.
Assay Type	Quantitative Competitive
Samples	Serum, plasma, cell culture supernatants, body fluid and tissue homogenate
Sensitivity	0.1 ng/ml
Preparation and Storage	Store all reagents at 2-8 degree C

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for ACE I elisa kit	Principle of the Assay: ACE ELISA kit applies the competitive enzyme immunoassay technique utilizing an anti-ACE antibody and an ACE-HRP conjugate. The assay sample and buffer are incubated together with ACE-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 ACE concentration since ACE from samples and ACE-HRP conjugate compete for the anti-ACE antibody binding site. Since the number of sites is limited, as more sites are occupied by ACE from the sample, fewer sites are left to bind ACE-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The ACE concentration in each sample is interpolated from this standard curve. Intended Uses: This ACE ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Rat ACE. This ELISA kit for research use only, not for therapeutic or test applications!
Product Categories/Family for ACE I elisa kit	Rat ELISA Kit

NCBI AND UNIPROT INFORMATION

NCBI GI #	37790804
NCBI GeneID	1636
UniProt Accession #	P12821; P22966; Q53YX9; Q59GY8; Q7M4L4; B0LPF0; B4DXI3; E7EU16
Molecular Weight	149,715 Da
NCBI Official Full Name	angiotensin I converting enzyme (peptidyl-dipeptidase A) 1
NCBI Official Synonym Full Names	angiotensin I converting enzyme
NCBI Official Symbol	ACE
NCBI Official Synonym Symbols	DCP; ICH; ACE1; DCP1; CD143; MVCD3
NCBI Protein Information	angiotensin-converting enzyme; kininase II; peptidase P; CD143 antigen; testicular ECA; carboxycathepsin; dipeptidyl carboxypeptidase 1; dipeptidyl carboxypeptidase I; angiotensin converting enzyme, somatic isoform; angiotensin I converting enzyme (peptidyl-dipeptidase A) 1; angiotensin I converting enzyme peptidyl-dipeptidase A 1 transcript
UniProt Protein Name	Angiotensin-converting enzyme
UniProt Gene Name	ACE
UniProt Synonym Gene Names	DCP; DCP1; ACE
UniProt Entry Name	ACE_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://www.aaabiotech.com/ace-i-rat-elisa-kits/angiotensin-i-converting-enzyme/87675>