

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

Rabbit Angiotensin I Converting Enzyme ELISA Kit

CATALOG #
AAA87171

REACTIVITY
Rabbit

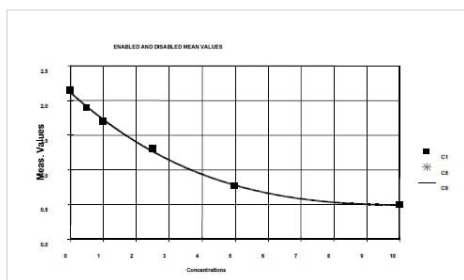
PRODUCT SYNONYMS

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

PRODUCT SPECIFICATIONS

Reactivity	Rabbit
Samples	Cell culture fluid & body fluid & tissue homogenate Serum or blood plasma
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

For Samples: Cell culture fluid & body fluid & tissue homogenate Serum or blood plasma

Intended Uses: This ACE ELISA kit is intended for laboratory research use only. The stop solution changes the color from blue to yellow and the intensity of the color is measured at 450 nm using a spectrophotometer. In order to measure the concentration of ACE in the sample, this ACE ELISA Kit includes a set of calibration standards. The calibration standards are assayed at the same time as the samples and allow the operator to produce a standard curve of Optical Density versus ACE concentration. The concentration of in the samples is then determined by comparing the O.D. of the samples to the standard curve

Principle of the Assay: The coated well immunoenzymatic assay for the quantitative measurement of ACE utilizes a monoclonal 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. Standards of known ACE concentrations are run concurrently with the samples being assayed and a standard curve is plotted relating the intensity of the color (Optical Density) to the concentration of ACE. The ACE concentration in each sample is interpolated from this standard curve.

Product Categories/Family for ACE I elisa kit	Rabbit ELISA Kit
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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-rabbit-elisa-kits/angiotensin-i-converting-enzyme/87171>