

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

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CATALOG #
AAA16351

REACTIVITY
Human

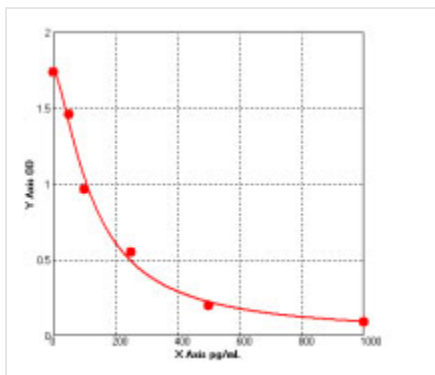
PRODUCT SYNONYMS

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

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of ACE1. No significant cross-reactivity or interference between ACE1 and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between ACE1 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	1.0 pg/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: ACE1 ELISA kit applies the competitive enzyme immunoassay technique utilizing a polyclonal anti-ACE1 antibody and an ACE1-HRP conjugate. The assay sample and buffer are incubated together with ACE1-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 ACE1 concentration since ACE1 from samples and ACE1-HRP conjugate compete for the anti-ACE1 antibody binding site. Since the number of sites is limited, as more sites are occupied by ACE1 from the sample, fewer sites are left to bind ACE1-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The ACE1 concentration in each sample is interpolated from this standard curve. Intended Uses: This ACE1 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Human ACE1. This ELISA kit for research use only, not for therapeutic or diagnostic applications!
Product Categories/Family for ACE I elisa kit	Human 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-human-elisa-kits/angiotensin-i-converting-enzyme/16351>