

Angiotensin Converting Enzyme (ACE) Assay Kit | ACE assay kit

Angiotensin Converting Enzyme (ACE) Activity Assay Kit

CATALOG #
AAA177776

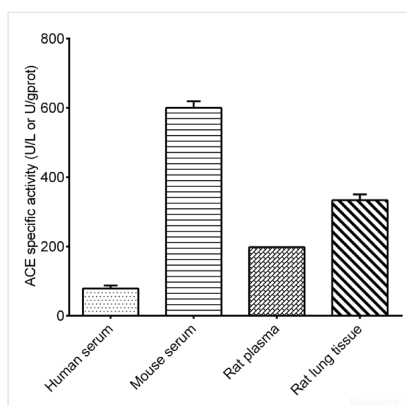
PRODUCT SYNONYMS

Angiotensin Converting Enzyme (ACE); Angiotensin Converting Enzyme (ACE) Activity Assay Kit; ACE assay kit

PRODUCT SPECIFICATIONS

Samples	Serum (plasma) and animal tissue samples
Detection Range	27.5- 682 U/L
Sensitivity	27.5 U/L
Preparation and Storage	Store at 2-8 degree C. Valid for 12 months

IMAGES



Application Data

ADDITIONAL INFORMATION

Related Product Information for ACE assay kit

Intended Uses: This kit can be used to measure angiotensin-converting enzyme (ACE) activity in serum (plasma) and animal tissue samples.

Principle of the Assay: N-[3-(2-furyl)acryloyl]-L-phenylalanylglycylglycine (FAPGG) have the maximum absorption peak at 340 nm, angiotensin converting enzyme catalyze N-(3[2- Furyl]Acryloyl)-Phe-Gly-Gly to produce FAP and GG, and the absorbance at 340 nm will be decreased. The activity of ACE can be calculated indirectly by measuring the decrease in absorbance at 340 nm.

Background/Introduction: Angiotensin-converting enzyme (ACE) is a Cl⁻ and Zn²⁺-dependent carboxypeptidase, which catalyzes the hydrolysis of angiotensin I to produce angiotensin II with vasoconstriction effect or hydrolysis of bradykinin with vasoconstriction function to produce Phe-Arg dipeptide. ACE is an important part of the renin-angiotensin system (RAS). RAS is an endocrine system that plays an important role in electrolyte homeostasis, body fluid regulation and cardiovascular control.

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.

