

Datasheet for ABIN6720307

**Angiotensin I Converting Enzyme 1 ELISA Kit**[Go to Product page](#)**1** Image

## Overview

Quantity:	1 kit
Target:	Angiotensin I Converting Enzyme 1 (ACE)
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Detection Range:	93.8 pg/mL - 6000 pg/mL
Minimum Detection Limit:	93.8 pg/mL
Application:	ELISA

## Product Details

Purpose:	Mouse ACE Sandwich ELISA Kit for Quantitative Detection
Brand:	AccuSignal™
Sample Type:	Cell Culture Supernatant, Plasma (heparin), Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	Production: Natural and recombinant mouse ACE. There is no detectable cross-reactivity with other relevant proteins.
Sensitivity:	< 10 pg/mL
Components:	<ul style="list-style-type: none"><li>• Antibody-coated 96-well plate</li><li>• Target Protein Standard</li><li>• Detection antibody</li></ul>

## Product Details

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- Detection reagent
- Diluent buffers
- Wash buffers
- Substrate Solution
- Stop solutions
- Adhesive covers

## Target Details

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Target: Angiotensin I Converting Enzyme 1 (ACE)

Alternative Name: ACE ([ACE Products](#))

Background: Synonyms: Angiotensin converting enzyme, CD143, DCP, Dcp1, Dipeptidyl carboxypeptidase I, Kininase II

Background: Angiotensin-converting enzyme(ACE), an exopeptidase, is a circulating enzyme that participates in the body's renin-angiotensin system(RAS), which mediates extracellular volume(i.e. that of the blood plasma, lymph and interstitial fluid), and arterial vasoconstriction. It is secreted by pulmonary and renal endothelial cells and catalyzes the conversion of decapeptide angiotensin I to octapeptide angiotensin II. Using a DNA marker at the growth hormone gene locus, which they characterized as 'extremely polymorphic' and which showed no recombination with ACE, ACE was mapped to 17q22-q24, consistent with the in situ hybridization mapping to 17q23. ACE, or kininase II, is a dipeptidyl carboxypeptidase that plays an important role in blood pressure regulation and electrolyte balance by hydrolyzing angiotensin I into angiotensin II, a potent vasopressor, and aldosterone-stimulating peptide. The enzyme is also able to inactivate bradykinin, a potent vasodilator.

Gene ID: 11421

NCBI Accession: [NP\\_033728](#)

UniProt: [P09470](#)

Pathways: [ACE Inhibitor Pathway](#), [Peptide Hormone Metabolism](#), [Regulation of Systemic Arterial Blood Pressure by Hormones](#), [Feeding Behaviour](#), [Smooth Muscle Cell Migration](#)

## Application Details

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Application Notes: Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1 mL per well of the 6000pg/mL, 3000pg/mL, 1500pg/mL, 750pg/mL, 419pg/mL, 187.5pg/mL, 93.8pg/mL mouse ACE standard solutions into the precoated 96-well plate. Add 0.1 mL of the sample diluent

## Application Details

buffer into the control well (Zero well). Add 0.1 mL of each properly diluted sample of mouse cell culture supernates, serum or plasma(heparin) to each empty well. We recommend that each mouse ACE standard solution and each sample is measured in duplicate.

Comment: Standard: Expression system for standard: NSO, Immunogen sequence: L35-Q1264

Sample Volume: 100  $\mu$ L

Plate: Pre-coated

Restrictions: For Research Use only

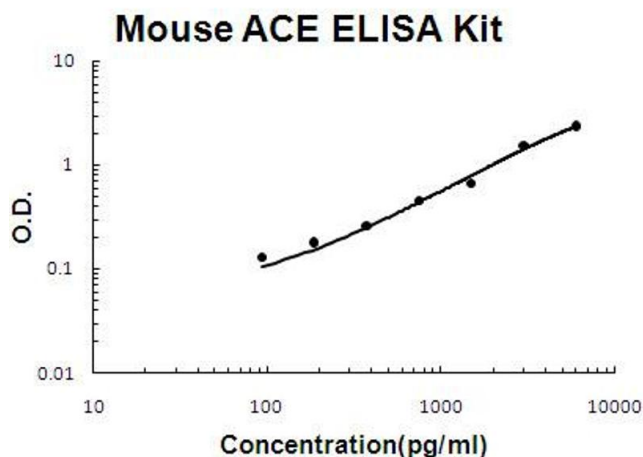
## Handling

Storage: 4 °C, -20 °C

Storage Comment: Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid cycles of freezing and thawing.

Expiry Date: 12 months

## Images



### ELISA

**Image 1.** Mouse ACE Accusignal ELISA Kit Mouse ACE AccuSignal ELISA Kit standard curve. Assay Range: 93.8pg/ml-6000pg/ml. Sensitivity: <10pg/ml.