

Datasheet for ABIN6719828

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:	Human
Method Type:	Sandwich ELISA
Detection Range:	156 pg/mL - 10000 pg/mL
Minimum Detection Limit:	156 pg/mL
Application:	ELISA

Product Details

Purpose:	Human ACE Sandwich ELISA Kit for Quantitative Detection
Brand:	AccuSignal™
Sample Type:	Cell Culture Supernatant, Plasma (heparin), Saliva, Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	Production: Natural and recombinant human ACE. There is no detectable cross-reactivity with other relevant proteins.
Sensitivity:	< 5 pg/mL
Components:	<ul style="list-style-type: none"> • Antibody-coated 96-well plate • Target Protein Standard • Detection antibody

Product Details

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

Target Details

Target:	Angiotensin I Converting Enzyme 1 (ACE)
Alternative Name:	ACE (ACE Products)
Background:	<p>Synonyms: ACE, ACE_HUMAN, ACE1, Angiotensin converting enzyme somatic isoform, Angiotensin I converting enzyme (peptidyl dipeptidase A) 1, Angiotensin-converting enzyme, Carboxycathepsin, CD143, CD143 antigen, DCP, DCP1, Dipeptidyl carboxypeptidase 1, Dipeptidyl carboxypeptidase I, Kininase II, MVCD3, Peptidase P, soluble form, Testicular ECA</p> <p>Background: Angiotensin-converting enzyme(ACE) is a zinc-containing dipeptidyl carboxypeptidase widely distributed in mammalian tissues and is thought to play a critical role in blood pressure regulation. The predicted protein is identical, from residue 37 to its C terminus, to the second half or C-terminal domain of the endothelial ACE sequence. The protein sequence inferred consists of a 732-residue preprotein including a 31-residue signal peptide. The mature polypeptide has a molecular weight of 80,073. Although ACE has been studied primarily in the context of its role in blood pressure regulation, this widely distributed enzyme has many other physiological functions. The ACE gene encodes two isozymes. The somatic isozyme is expressed in many tissues, including vascular endothelial cells, renal epithelial cells, and testicular Leydig cells, whereas the testicular or germinal angiotensin-converting enzyme is expressed only in sperm. The standard product used in this kit is recombinant human ACE, consisting of 30-1261 amino acids with the molecular mass of 120KDa.</p>
Gene ID:	1636
NCBI Accession:	NP_000780
UniProt:	B4DKH4
Pathways:	ACE Inhibitor Pathway , Peptide Hormone Metabolism , Regulation of Systemic Arterial Blood Pressure by Hormones , Feeding Behaviour , Smooth Muscle Cell Migration

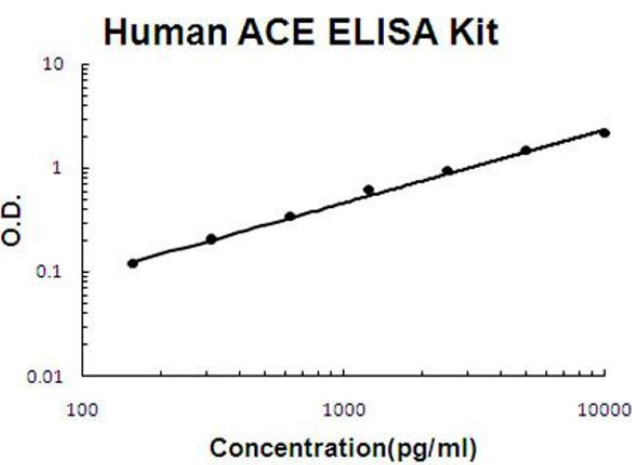
Application Details

Application Notes:	Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1 mL per well of the 10000pg/mL, 5000pg/mL, 2500pg/mL, 1250pg/mL, 625pg/mL, 313pg/mL, 156pg/mL human ACE standard solutions into the precoated 96-well plate. Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each properly diluted sample of human cell culture supernatants, serum, plasma(heparin) or saliva to each empty well. We recommend that each human ACE standard solution and each sample is measured in duplicate.
Comment:	Standard: Expression system for standard: sf2NSO, Immunogen sequence: L30-L1261
Sample Volume:	100 µL
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. Human ACE Accusignal ELISA Kit Human ACE AccuSignal ELISA Kit standard curve. Assay Range: 156pg/ml-10000pg/ml. Sensitivity: <5pg/ml.