



Human Angiotensin ? Converting Enzyme,ACE? ELISA Kit

Product Code	CSB-E11269h
Abbreviation	ACE
Target Name	angiotensin I converting enzyme (peptidyl-dipeptidase A) 1
Uniprot No.	P12821
Alias	ACE1, CD143, DCP, DCP1, MGC26566, MVCD3, CD143 antigen angiotensin I converting enzyme 1 angiotensin converting enzyme, somatic isoform carboxycathepsin dipeptidyl carboxypeptidase 1 kininase II pep Angiotensin ? Converting Enzyme,ACE?
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Sample Types	serum, plasma, cell culture supernates, tissue homogenates
Detection Range	18.75 pg/mL-1200 pg/mL
Sensitivity	4.7 pg/mL
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Neuroscience
Gene Names	ACE
Tag Info	quantitative
Protein Description	Sandwich
Description	This Human ACE ELISA Kit was designed for the quantitative measurement of Human ACE protein in serum, plasma, cell culture supernates, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 18.75 pg/mL-1200 pg/mL and the sensitivity is 4.7 pg/mL.
Target Details	This gene encodes an enzyme involved in catalyzing the conversion of angiotensin I into a physiologically active peptide angiotensin II. Angiotensin II is a potent vasopressor and aldosterone-stimulating peptide that controls blood pressure and fluid-electrolyte balance. This enzyme plays a key role in the renin-angiotensin system. Many studies have associated the presence or absence of a 287 bp Alu repeat element in this gene with the levels of circulating enzyme or cardiovascular pathophysiologies. Two most abundant alternatively



spliced variants of this gene encode two isozymes - the somatic form and the testicular form that are equally active. Multiple additional alternatively spliced variants have been identified but their full length nature has not been determined.

Product Precision

Intra-assay Precision (Precision within an assay): CV%<8%

Three samples of known concentration were tested twenty times on one plate to assess.

Inter-assay Precision (Precision between assays): CV%<10%

Three samples of known concentration were tested in twenty assays to assess.

Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of human ACE? in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

	Sample	Serum(n=4)
1:200	Average %	97
	Range %	92-104
1:400	Average %	91
	Range %	82-98
1:800	Average %	103
	Range %	99-111
1:1600	Average %	87
	Range %	82-96

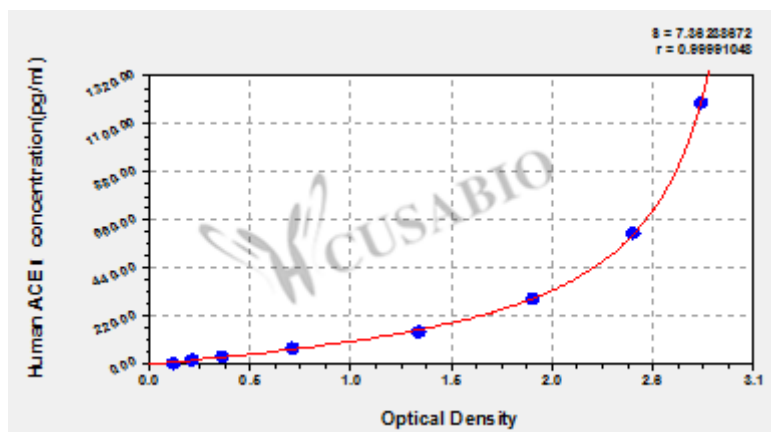
Recovery

The recovery of human ACE? spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.

Sample Type	Average % Recovery	Range
Serum (n=5)	90	85-98
EDTA plasma (n=4)	112	105-117

Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.



pg/ml	OD1	OD2	Average	Corrected
1200	2.844	2.752	2.798	2.663
600	2.536	2.382	2.459	2.324
300	1.916	1.985	1.951	1.816
150	1.390	1.355	1.373	1.238
75	0.715	0.764	0.740	0.605
37.5	0.386	0.375	0.381	0.246
18.75	0.222	0.239	0.231	0.096
0	0.132	0.137	0.135	

Msds

```
{
  "0": {
    "fileurl": "https://www.cusabio.com/uploadfile/msds/MSDS CSB-E11269h.pdf",
    "filename": "MSDS"
  }
}
```