



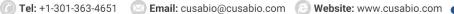


Dog Renin ELISA Kit

Product Code	CSB-E08704c	
Abbreviation	REN	
Target Name	renin	
Uniprot No.	Q6DYE7	
Alias	FLJ10761, HNFJ2, angiotensin-forming enzyme angiotensinogenase renin precursor, renal	
Product Type	ELISA Kit	
Immunogen Species	Canis lupus familiaris (Dog) (Canis familiaris)	
Sample Types	serum, plasma, tissue homogenates	
Detection Range	62.5 pg/mL-4000 pg/mL	
Sensitivity	15.6 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	Cardiovascular	
Gene Names	REN	
Tag Info	quantitative	
Protein Description	Sandwich	
Description	This Dog REN ELISA Kit was designed for the quantitative measurement of Dog REN protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 62.5 pg/mL-4000 pg/mL and the sensitivity is 15.6 pg/mL.	
Target Details	Renin catalyzes the first step in the activation pathway of angiotensinogena	
	cascade that can result in aldosterone release, vasoconstriction, and increase in blood pressure. Renin, an aspartyl protease, cleaves angiotensinogen to form angiotensin I, which is converted to angiotensin II by angiotensin I converting enzyme, an important regulator of blood pressure and electrolyte balance. Transcript variants that encode different protein isoforms and that arise from alternative splicing and the use of alternative promoters have been described, but their full-length nature has not been determined. Mutations in this gene have been shown to cause familial hyperproreninemia.	

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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 dog renin 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)
1:1	Average %	93
1.1	Range %	89-97
1:2	Average %	105
1.2	Range %	100-112
1:4	Average %	84
1.4	Range %	80-88
1:8	Average %	95
	Range %	90-100

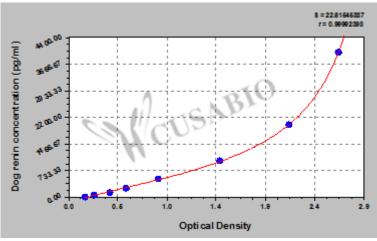
Recovery

The recovery of dog renin 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)	97	90-103
EDTA plasma (n=4)	88	84-93

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

4000 2.582 2.683 2.633 2.454 2000 2.204 2.104 2.154 1.975 1000 1.451 1.521 1.486 1.307 500 0.864 0.908 0.886 0.707 250 0.569 0.584 0.577 0.398 125 0.430 0.402 0.416 0.237 62.5 0.279 0.259 0.269 0.090 0 0.182 0.176 0.179

Msds

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