



Human renin (REN) ELISA Kit

Product Code	CSB-E08701h
Abbreviation	REN
Target Name	renin
Uniprot No.	P00797
Alias	FLJ10761, HNFJ2, angiotensin-forming enzyme angiotensinogenase renin precursor, renal
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Sample Types	serum, plasma, tissue homogenates
Detection Range	15.6 mIU/mL-1000 mIU/mL
Sensitivity	3.9 mIU/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 Human REN ELISA Kit was designed for the quantitative measurement of Human REN protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 15.6 mIU/mL-1000 mIU/mL and the sensitivity is 3.9 mIU/mL.
Target Details	Renin catalyzes the first step in the activation pathway of angiotensinogen--a 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.
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 REN 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 %	86
	Range %	80-92
1:2	Average %	99
	Range %	91-104
1:4	Average %	100
	Range %	92-110
1:8	Average %	95
	Range %	89-100

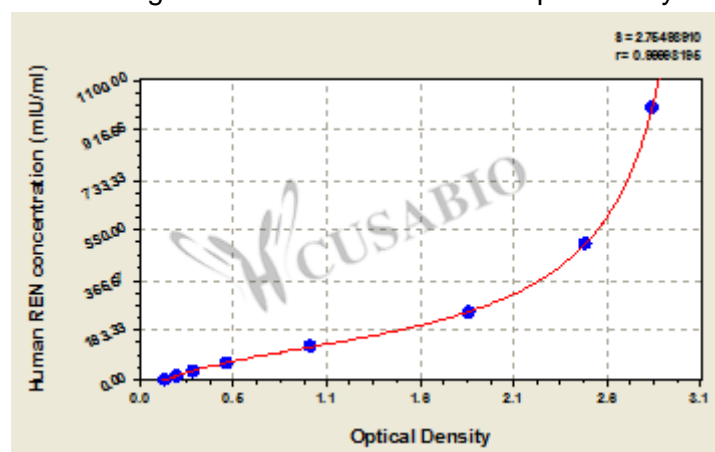
Recovery

The recovery of human REN 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)	95	89-99
EDTA plasma (n=4)	95	90-100

Typical

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



mIU/ml	OD1	OD2	Average	Corrected
1000	2.953	2.765	2.859	2.713
500	2.565	2.412	2.489	2.343
250	1.886	1.796	1.841	1.695
125	0.975	0.943	0.959	0.813
62.5	0.501	0.482	0.492	0.346
31.2	0.309	0.301	0.305	0.159
15.6	0.222	0.218	0.220	0.074
0	0.147	0.145	0.146	?

**Msds**

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