

General Prorenin for Non Plasma Samples ELISA Kit | REN elisa kit

Human Prorenin ELISA Kit for Non Plasma Samples

CATALOG #
AAA37740

REACTIVITY
General

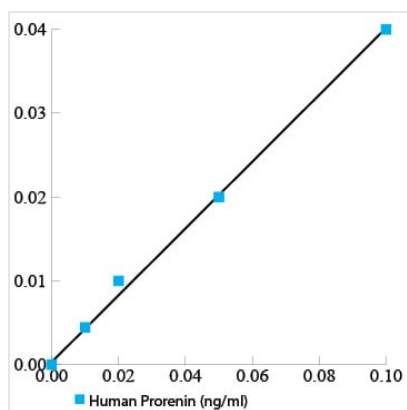
PRODUCT SYNONYMS

Prorenin for Non Plasma Samples; Human Prorenin ELISA Kit for Non Plasma Samples; REN elisa kit

PRODUCT SPECIFICATIONS

Reactivity	General
Specificity	This assay recognizes recombinant and natural human prorenin. The factors listed below were prepared at 10 ng/ml in blocking buffer and assayed for cross-reactivity. No significant cross-reactivity was observed. Recombinant human renin Recombinant mouse prorenin Recombinant rat prorenin
Form/Format	Complete Kit
Sequence Length	406
Samples	Plasma or serum samples
Sensitivity	The minimum detectable dose (MDD) was determined by adding two standard deviations to the mean optical density value of twenty zero standard replicates (range OD450: 0.063-0.071) and calculating the corresponding concentration. The MDD was 0.016 ng/ml.
Intra-assay Precision	Three samples of known concentration were tested twenty times on one plate to assess intra-assay precision.
Inter-assay Precision	Three samples of known concentration were tested in ten independent assays to assess inter-assay precision.
Preparation and Storage	Store at 4 degree C. Shelf Life: 12 months from manufacture, see label for expiration date

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for REN elisa kit	Intended Uses: Human prorenin assay is intended for the quantitative determination of prorenin in non-plasma samples including cell culture media, tissue extracts, or urine samples. Active renin will not be detected by this assay. Prorenin is measured directly by ELISA without pretreatment of samples or conversion to renin [1]. For quantitation of prorenin in plasma or serum samples, use the Human Prorenin ELISA Kit. For research use only. Principle of the Assay: Human prorenin will bind to the capture antibody coated on the microtiter plate. After appropriate washing steps, anti-human prorenin primary antibody binds to the captured protein. Only prorenin and not active renin will be detected by the primary antibody. Excess antibody is washed away and bound primary antibody is then reacted with the secondary antibody conjugated to horseradish peroxidase. TMB substrate is used for color development at 450nm. A standard calibration curve is prepared along with the samples to be measured using dilutions of prorenin. The amount of color development is directly proportional to the concentration of prorenin in the sample. Background: Prorenin is a glycosylated aspartic protease that consists of 2 homologous lobes and is the precursor of renin. Renin activates the renin-angiotensin system by cleaving angiotensinogen, produced by the liver, to yield angiotensin I, which is further converted into angiotensin II by ACE, the angiotensin-converting enzyme primarily within the capillaries of the lungs. It has been reported that the levels of circulating prorenin (but not renin) are increased in diabetic subjects [2].
Product Categories/Family for REN elisa kit	Renin/Prorenin; Prorenin ELISA Kits

NCBI AND UNIPROT INFORMATION

NCBI GI #	4506475
NCBI GeneID	5972
NCBI Accession #	NP_000528.1
NCBI GenBank Nucleotide #	NM_000537.3
UniProt Accession #	P00797; Q6FI38; Q6T5C2
Molecular Weight	45,057 Da
NCBI Official Full Name	renin preproprotein
NCBI Official Synonym Full Names	renin
NCBI Official Symbol	REN
NCBI Official Synonym Symbols	HNFJ2
NCBI Protein Information	renin; angiotensinogenase; renin precursor, renal; angiotensin-forming enzyme
UniProt Protein Name	Renin
UniProt Gene Name	REN
UniProt Entry Name	RENI_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.