

Rat Prorenin/Renin Total Antigen ELISA Kit

Catalog No.	CSI20236A CSI20236B	Quantity:	1 Plate 5 Plates
Description:	Rat Prorenin/Renin Total Antigen ELISA Kit is intended for the quantitative determination of total Prorenin and Renin in Rat plasma and serum.		
Principle:	Rat Prorenin and Renin will bind to the affinity purified Capture Antibody coated on the microtiter plate. After appropriate washing steps, Biotin labeled polyclonal Anti-Rat Prorenin Primary Antibody binds to the captured protein. Excess antibody is washed away and bound polyclonal antibody is reacted with Avidin 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 Rat Prorenin. Color development is proportional to the total concentration of Prorenin and Renin in the samples.		
Background:	Renin (REN) catalyzes the first step in the Renin-Angiotensin System (RAS). REN aspartyl protease, cleaves Angiotensinogen to form Angiotensin I, which is converted to Angiotensin II by Angiotensin I Converting Enzyme (ACE), an important regulator of blood pressure and electrolyte balance. Human REN is secreted by at least 2 cellular pathways: a constitutive pathway for the secretion of Prorenin and a regulated pathway for the secretion of mature REN.		
Alternate Names:	Prorenin, Renin, Angiotensinogenase, Angiotensin-forming enzyme		
GeneID:	24715		
Range:	The assay measures total Rat Prorenin and Renin in the range of 0.1-100 ng/mL.		
Samples:	Serum, plasma, urine, cell culture media, buffered solutions, or tissue extracts.		
Reagents Included:	<ol style="list-style-type: none"> 1. Microplate 96-wells coated with Capture Antibody 2. Wash Buffer Concentrate (10x) 3. Standards 4. Biotinylated Detection Antibody 5. HRP-conjugated Secondary Antibody 6. TMB Substrate Reagent 		
Storage & Stability:	Store at 2-8°C. Store unopened plate and any unused microtiter strips in the pouch with desiccant. Reconstituted standards and primary antibody may be stored at -70°C for later use. DO NOT freeze/thaw the standards and primary antibody more than once. All other unused kit components must be stored at 4°C. Kit should be used no later than the expiration date		

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.