Rat Prorenin, C-terminal 8x His tag

Catalog No.	CSI19922A CSI19922B	**Quantity:**	100 µg 1.0 mg

Description: Recombinantly produced in HEK cell culture and purified by chelated metal affinity chromatography. Contains a 8X-Histidine tag at C terminus for purification. Fully activatable to renin by catalytic amounts of trypsin. Prorenin is a glycosylated aspartic protease that consists of 2 homologous lobes and is the precursor of renin. Prorenin exhibits a low level of enzymatic activity relative to renin which is generated from prorenin by proteolytic cleavage of the first ~43 amino acids at the N-terminus. This so called prosegment appears to block the full enzymatic potential of the active site. 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.

Concentration: 1.0 mg/ml

Source: Human Embryonic Kidney cells

Molecular Weight: 41,849

Formulation: Liquid in 50 mM Tris, pH 8.0

Purity: >95% by SDS-PAGE analysis

Storage & Stability: When stored at -80°C, product is stable for 3 years from date of delivery.

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

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