REN
Recombinant Human Prorenin His

Catalog No.	CSI19823A CSI19823B	**Quantity:**	100 µg 1.0 mg
Alternate Names:	HNFJ2		

Description: Recombinantly produced in HEK cell culture and purified by chelated metal affinity chromatography. Contains an 8x Histidine tag at the 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
Gene ID:	5972
Source:	Human Embryonic Kidney cells (HEK cells)
Molecular Weight:	43.725 kDa
Formulation:	Frozen 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. **Avoid repeated freeze-thaw cycles.**

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