

Recombinant Dog Renin, His-tagged

Cat. No. REN-2456D **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinantly Dog Renin was produced in HEK cell culture and purified by chelated metal affinity chromatography. Contains a 8X-Histidine tag at C terminus for purification. MW = 41,570Da.
Species	Dog
Source	HEK293
Description	Renin is secreted from kidney cells (of the afferent arterioles), which are activated via signaling (the release of prostaglandins) from the macula densa, which respond to the rate of fluid flow through the distal tubule, by decreases in renal perfusion pressure (through stretch receptors in the vascular wall), and by nervous stimulation, mainly through beta-1 receptor activation. A drop in the rate of flow past the macula densa implies a drop in renal filtration pressure. Renin's primary function is therefore to eventually cause an increase in blood pressure, leading to restoration of perfusion pressure in the kidneys.
Concentration	1.0 mg/ml.
Form	Frozen liquid.
Buffer	0.05M Tris-HCl; pH 8.0.
Minimum Shelf Life	3 years from delivery.

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Storage -70°C.

GENE INFORMATION

Gene Name REN renin [*Canis lupus familiaris*]

Synonyms REN; rennin; rennin; angiotensinogenase; EC 3.4.23.15

Gene ID 403838

mRNA Refseq NM_001003194

Protein Refseq NP_001003194

UniProt ID Q6DYE7

Chromosome Location 38

Pathway Renin-angiotensin system

PDB rendering based on 2ren.



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