

Recombinant Rat Renin, His-tagged

Cat. No. Ren-2454R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Renin contains 381 amino acids and 8X-Histidine tag at C terminus. Fully activatable to renin by catalytic amounts of trypsin. Molecular weight is 41,849Da less glycosylation. It was produced in <i>HEK</i> .
Species	Rat
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.
Purification	>95% pure (SDS-PAGE). Chelated metal affinity chromatography.
Concentration	1.4mg/ml (OD280nm, E0.1% = 1.13).
Format	Purified, Liquid.
Buffer	50mM Tris, pH 8.0.

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Preservative	None.
Applications	Specific methodologies have not been tested using this product.
Inactivation	Not applicable.
Storage	Store at -70°C. Avoid multiple freeze/thaw cycles.

GENE INFORMATION

Gene Name	Ren renin [Rattus norvegicus]
Synonyms	Ren; rennin; Ren1; RENAA; RATRENAA; angiotensinogenase; renin 1 structural; renin 1
Gene ID	24715
mRNA Refseq	NM_012642
Protein Refseq	NP_036774
UniProt ID	P08424
Chromosome Location	13q13
Pathway	Renin-angiotensin system
Function	aspartic-type endopeptidase activity; aspartic-type endopeptidase activity; endopeptidase activity; insulin-like growth factor receptor binding; peptidase activity; receptor binding

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