

Active Recombinant Rat renin Protein, Tag Free

Cat. No. Ren-47R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant rat pro-renin was expressed in HEK cells. Purified enzyme was converted to the active renin by tryptic activation followed by removal of trypsin. The activity of enzyme can be measured in FRET-based assays
Species	Rat
Source	HEK293
ProteinLength	65-402aa
Description	Enables endopeptidase activity and insulin-like growth factor receptor binding activity. Involved in several processes, including peptide metabolic process; response to lipopolysaccharide; and response to purine-containing compound. Located in cytoplasm and extracellular space. Used to study hypertension. Biomarker of primary biliary cholangitis. Human ortholog(s) of this gene implicated in essential hypertension; familial juvenile hyperuricemic nephropathy; hand, foot and mouth disease; hypertension; and portal hypertension. Orthologous to human REN (renin).
Tag	Non
Form	Solution
Molecular Mass	38.5 kDa
Purity	≥90% by SDS-PAGE

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Applications	ELISA; FRET; Immunoprecipitation (IP); Protease activity
Usage	Research use
Unit Definition	One unit of protease hydrolyzes 1 picomole of FRET peptide (ArgGlu(EDANS)-Ile-His-Pro-Phe-His-Leu-Val-Ile2-His-Thr-Lys(Dabcyl)-Arg) per minute
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	0.5 mg/mL
Storage Buffer	50 mM Tris-HCl, pH 8.0
References	1. He, FJ. and GA. MacGregor, J. Renin Angiotensin Aldosterone Syst. 4, 11 (2003). 2. Hollenberg, NK. J. Am. Soc. Nephrol. 10, S239 (1999). 3. Paschalidou, K. et al., Biochem. J. 382, 1031 (2004).

GENE INFORMATION

Gene Name	Ren renin [<i>Rattus norvegicus</i> (Norway rat)]
Official Symbol	Ren
Synonyms	Ren; renin; Ren1; RENAA; RATRENAA; renin; angiotensinogenase; renin 1 structural; EC 3.4.23.15
Gene ID	24715
mRNA Refseq	NM_012642
Protein Refseq	NP_036774

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