

Active Native Human Renin Antigen

Cat. No. REN-388H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native Human Renin Antigen was purified from Human Kidney.
Species	Human
Source	Human Kidney
Description	Renin catalyzes the first step in the activation pathway of angiotensinogen--a cascade that can result in aldosterone release, vasoconstriction, and increase in blood pressure. Renin, an aspartyl protease, cleaves angiotensinogen to form angiotensin I, which is converted to angiotensin II by angiotensin I converting enzyme, an important regulator of blood pressure and electrolyte balance. Transcript variants that encode different protein isoforms and that arise from alternative splicing and the use of alternative promoters have been described, but their full-length nature has not been determined. Mutations in this gene have been shown to cause familial hyperproreninemia.
Form	Clear, colorless liquid. Liquid in sodium acetate, EDTA and benzamidine, pH 6.0.
Bio-activity	Typically >1 U/mL
Purity	>90% (Electrophoresis)
Unit Definition	Renin Activity was measured by following the cleavage of the fluorogenic substrate Arg-Glu(EDANS)-Ile-His-Pro-Phe-His-Leu-Val-Ile-His-Thr-Lys(dabcyl)-Arg at pH 8.0 and 37C.

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Storage	2-8 °C
Concentration	Protein: >0.1 mg protein/mL (Lowry)
GENE INFORMATION	
Gene Name	REN renin [Homo sapiens]
Official Symbol	REN
Synonyms	REN; renin; angiotensinogenase; renin precursor, renal; angiotensin-forming enzyme; HNFJ2; FLJ10761;
Gene ID	5972
mRNA Refseq	NM_000537
Protein Refseq	NP_000528
MIM	179820
UniProt ID	P00797
Chromosome Location	1q32
Pathway	ACE Inhibitor Pathway, organism-specific biosystem; Renin-angiotensin system, organism-specific biosystem; Renin-angiotensin system, conserved biosystem;
Function	aspartic-type endopeptidase activity; insulin-like growth factor receptor binding; peptidase activity; receptor binding;

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