Recombinant Human REN

Cat. No. REN-73H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Renin was expressed in Yeast.
Species	Human
Source	Yeast
Description	Renin is a member of the aspartyl proteinase family produced largely in part by the juxtaglomerular cells in the kidney.Renin differs from the other members of this class by having a pH optimum near neutral pH region with native substrates instead of 2.0 to 3.4 This more neutral pH optimum allows it to be functional in the plasma.Renin also has very high selectivity for substrate due to quite long peptide recognition on either side of the peptide bond undergoing cleavage. An octapeptide substrate was the minimum length to be cleaved by renin. Renin plays a crucial role in the regulation of blood pressure and salt balance through the cleavage of angiotensinogen, which is the only known physiological substrate of renin.
Form	Lyophilized from sterile 20mM PB,240mM NaCl,PH6.0.
Molecular Mass	16.1kDa
Endotoxin	< 1.0 eu per μg of the protein as determined by the LAL method.
Purity	>95 % as determined by SDS-PAGE
Applications	Western blotting, ELISA

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Storage	Store it under sterile conditions at -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.Samples are stable for up to twelve months from date of receipt at -80℃.

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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