

Recombinant Dog REN Protein, His-tagged

Cat. No. REN-1207D **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Dog REN Protein (Leu66-Arg403) with His tag was expressed in E. coli.
Species	Dog
Source	E.coli
ProteinLength	Leu66-Arg403
Description	This gene encodes renin, an aspartic protease that is secreted by the kidneys. Renin is a part of the renin-angiotensin-aldosterone system involved in regulation of blood pressure, and electrolyte balance. This enzyme catalyzes the first step in the activation pathway of angiotensinogen by cleaving angiotensinogen to form angiotensin I, which is then converted to angiotensin II by angiotensin I converting enzyme. This cascade can result in aldosterone release, narrowing of blood vessels, and increase in blood pressure as angiotension II is a vasoconstrictive peptide. 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 hyperuricemic nephropathy familial juvenile 2, familial hyperproreninemia, and renal tubular dysgenesis.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 66.7 kDa; Accurate Molecular Mass: 67 kDa

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Purity	> 97%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	REN renin [<i>Canis lupus familiaris</i> (dog)]
Official Symbol	REN
Synonyms	REN; renin; angiotensinogenase;
Gene ID	403838
mRNA Refseq	NM_001003194
Protein Refseq	NP_001003194

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UniProt ID

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