

Recombinant Full Length Human REN Protein

Cat. No. REN-52H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human REN(1-406) protein without tag was expressed in HEK293 cells.
Species	Human
Source	HEK293
ProteinLength	1-406
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.
Molecular Mass	45 kDa
Purity	≥85% estimated by SDS-PAGE

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Stability	≥ 1 year
Storage	Store it at -80 centigrade
Storage Buffer	50mM Tris-HCl pH 8.0, with 150 mM sodium chloride, 5% Glycerol

GENE INFORMATION

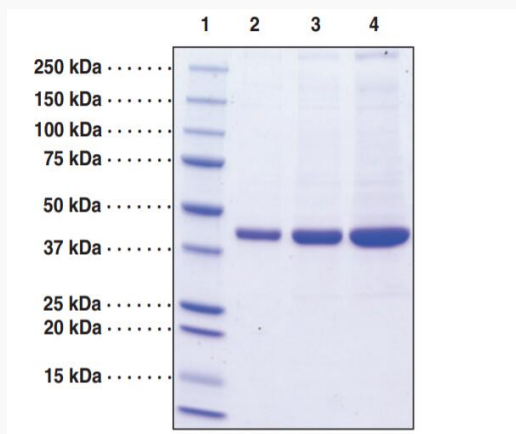
Gene Name	REN renin [Homo sapiens (human)]
Official Symbol	REN
Synonyms	REN; renin; HNFJ2; renin; angiotensin-forming enzyme; angiotensinogenase; renin precursor, renal
Gene ID	5972
mRNA Refseq	NM_000537
Protein Refseq	NP_000528
MIM	179820
UniProt ID	P00797

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SDS-PAGE Analysis of REN



Lane 1: MW Markers; Lane 2: Prorenin (1 µg); Lane 3: Prorenin (2 µg); Lane 4: Prorenin (4 µg). Representative gel image shown; actual purity may vary between each batch.

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