

Recombinant Human REN Protein

Cat. No. REN-808H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human REN protein without tag was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	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.
Form	Lyophilized
Molecular Mass	43.2 kDa

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AA Sequence	MDGWRRMPRWGLLLLLWGSCFTGLPTDTTTFKRIFLKRMP SIRESLKERGVDMARL GPEWSQPMKRLTLGNTTSSVILTNYMDTQYYGEIGIGTPPQTFKVVFD TGSSNVWV PSSKCSRLYTACVYHKLFDASDSSSYKHNGTELTRYSTGT VSGFLSQDIITVGGITV TQMFGEVTEMPALPFMLAEFDGVVGMGFIEQAIGRVTPIFDNIISQGV LKEDVFSFY NRDSENSQSLGGQIVLGGSDPQHYEGNFHYINLIK TG VWQIQMKGVS VGSSTLLCE DGCLALVDTGASYISGSTSSIEKLMEALGAKKRLFDYVVKCNEGPTLPDISFHLGGKE YTLTSADYVFQESYSSKKLCTLAIHAMDIPPPTGPTWALGATFIRKFYTEFDRRNNRI GFALAR
Purity	> 98%
Applications	WB; ELISA; FACS; FC
Stability	This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term). After reconstitution, sample may be stored at 4 centigrade for 2-7 days and below -18 centigrade for future use.
Storage	At -20 centigrade.
Concentration	1 mg/mL
Storage Buffer	PBS (pH 7.4-7.5). Sterile-filtered colorless solution.
Reconstitution	Reconstitute in sterile distilled H ₂ O to no less than 100 µg/mL; dilute reconstituted stock further in other aqueous solutions if needed. Please review COA for lot-specific instructions. Final measurements should be determined by the end-user for optimal performance.

GENE INFORMATION

Gene Name REN renin [*Homo sapiens* (human)]

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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

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