

Recombinant Full Length Human REN Protein, C-Flag-tagged

Cat. No. REN-648HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human REN Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	42.3 kDa
AA Sequence	MDGWRRMPRWGLLLLLWGSCTFGLPTDTTTFKRIFLKRMPRESLKERGVDMARL

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GPEWSQPMKRLTLG NTTSSVILTNYMDTQYYGEIGIGTPPQTFKVVFDTGSSNVVW
PSSKCSRLYTACVYHKLFDASDSSSYKH NGTELTRYSTGTVSGFLSQDIITVGGITV
TQMFGEVTEMPALPFMLAEFDGVVGMGFIEQAIGRVTPIF DNIISQGVLKEDVFSFY
YNRDSSENSQSLGGQIVLGGSDPQHYEGNFHYINLIKTGVWQIQMKGVS VGSST LLC
EDGCLALVDTGASYISGSTSSIEKLMEALGAKKRLFDYVVKCNEGPTLPDISFHLGGK
EYTLTSADY
VFQESYSSKKLCTLAIHAMDIPPPTGPTWALGATFIRKFYTEFDRRNNRIGFALARTR
TRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Secreted Protein
Protein Pathways	Renin-angiotensin system
Full Length	Full L.

GENE INFORMATION

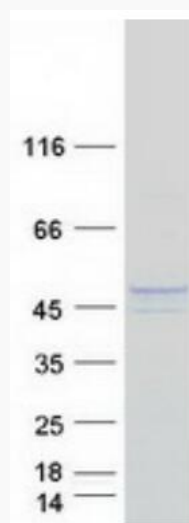
Gene Name REN renin [Homo sapiens (human)]

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Official Symbol	REN
Synonyms	RTD; HNFJ2; ADTKD4
Gene ID	5972
mRNA Refseq	NM_000537.4
Protein Refseq	NP_000528.1
MIM	179820
UniProt ID	P00797



Coomassie blue staining of purified REN protein.

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