

Recombinant Human REN Protein, His-tagged

Cat. No. REN-11H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human Renin (24-406aa), fused to His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.
Species	Human
Source	HEK293
ProteinLength	24-406 a.a.
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	Liquid

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Molecular Mass	43.1 kDa
Identity	389aa
AA Sequence	LPTDTTTFKRIFLKRMP SIRESLKERGVDMARLGPEWSQPMKRLTLGNTTSSVILTNY MDTQYYGEIGIGTPPQTFKVVFDTGSSNVWVPSSKCSRLYTACVYHKLFDASDSSS YKHNGTELTTRYSTGTVSGFLSQDIITVGGITVTQMFGEVTEMPALPFMLAEFDGVV GMGFIEQAIGRVTPIFDNIISQGV LKEDVFSFYNNRDSSENSQSLGGQIVLGGSDPQHY EGNFHYINLIK TG VWQIQMKGVS VGSSTLLCEDGCLALVDTGASYISGSTSSIEKLME ALGAKKRLFDYVVKCNEGPTLPDISFHLGGKEYTLTSADYVFQESYSSKKLCTLAIHA MDIPPPTGPTWALGATFIRKFYTEFDRRNNRIGFALAR
Endotoxin	< 1 EU/μg of protein (determined by LAL method)
Purity	> 95% by SDS-PAGE
Applications	SDS-PAGE
Storage	Can be stored at 2 to 8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/mL (determined by absorbance at 280nm)
Storage Buffer	Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

GENE INFORMATION

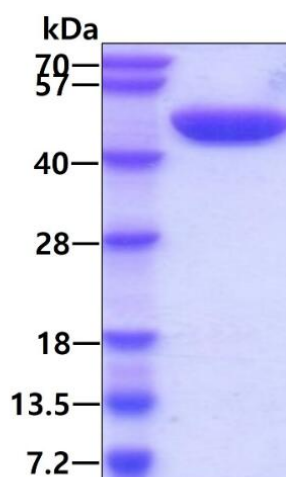
Gene Name	REN renin [Homo sapiens (human)]
Official Symbol	REN

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Synonyms	REN; renin; RTD; HNFJ2; ADTKD4; renin; angiotensin-forming enzyme; angiotensinogenase; renin precursor, renal; EC 3.4.23.15
Gene ID	5972
mRNA Refseq	NM_000537
Protein Refseq	NP_000528
MIM	179820
UniProt ID	P00797

SDS-PAGE


3 µg by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

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