

Product datasheet for **TP308382**

Renin (REN) (NM_000537) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins
Description: Recombinant protein of human renin (REN), 20 µg
Species: Human
Expression Host: HEK293T
Expression cDNA Clone or AA Sequence: >RC208382 protein sequence
Red=Cloning site **Green**=Tags(s)

MDGWRRMPRWGLLLLLWGSCFTGLPTDTTTFKRIFLKRMPISRESLKERGVDMARLGPESWQPMKRLTLG
 NTTSSVILTNYMDTQYYGEIGITPPQTFKVFDTGSSNVWVPSKCSRLYTACVYHKLFDASDSSSYKH
 NGTELTLRYSTGTVSGFLSQDIITVGGITVTQMFGEVTEMPALPFMLAEFDGVVGMGFIEQAIGRVTFPIF
 DNIISQGVLKEDVFSFYNRDSENSQSLGGQIVLGGSDPQHYEGNFHYINLIKTVWQIQMKGVS SVGSS
 LLCEDGCLALVDTGASYISGSTSSIEKLMALGAKKRLFDYVVKCNEGPTLPDISFHLGGKEYTLTSADY
 VFQESYSSKKLCTLAIHAMDIPPPTGPTWALGATFIRKFYTEFDRRNNRIGFALAR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK
Predicted MW: 42.3 kDa
Concentration: >0.05 µg/µL as determined by microplate BCA method
Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation: Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage: Store at -80°C.
Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq: [NP_000528](#)
Locus ID: 5972



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UniProt ID: [P00797](#)

RefSeq Size: 1493

Cytogenetics: 1q32.1

RefSeq ORF: 1218

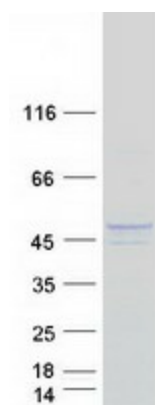
Synonyms: ADTKD4; HNFJ2; RTD

Summary: 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. [provided by RefSeq, May 2020]

Protein Families: Druggable Genome, Secreted Protein

Protein Pathways: Renin-angiotensin system

Product images:



Coomassie blue staining of purified REN protein (Cat# TP308382). The protein was produced from HEK293T cells transfected with REN cDNA clone (Cat# [RC208382]) using MegaTran 2.0 (Cat# [TT210002]).