

Product datasheet for PH308382

Renin (REN) (NM_000537) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	REN MS Standard C13 and N15-labeled recombinant protein (NP_000528)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC208382
Predicted MW:	45.1 kDa
Protein Sequence:	>RC208382 protein sequence Red=Cloning site Green=Tags(s)
	MDGWRRMPRWGLLLLLWGSCFTGLPTDTTTTFKRIFLKRMP SIRESLKERVDMARLGPEWSQPMKRLTLG NTTSSVILTNYMDTQYYGEIGIGTPPQTFKVVFDTGSSNVVWPSSKCSRLYTACVYHKLFDASDSSSYKH NGTELTLYSTGTVSGFLSQDIIITVGGITVTQMFGEVTEMPALPFMLAEFDGVVGMGFIEQAIGRVTPIF DNIISQGVLKEDVFSFYNRDSENSQSLGGQIVLGGSDPQHYEGNFHYINLIKTVWQIQMKGVSVGSST LLCEDGCLALVDTGASYISGSTSSIEKLMALGAKKRLFDYVVKCNEGPTLPDISFHLGGKEYTLTSADY VFQESYSSKKLCTLAIHAMDIPPTGPTWALGATFIRKFYTEFDRRNNRIGFALAR
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_000528
RefSeq Size:	1493
RefSeq ORF:	1218
Synonyms:	ADTKD4; HNFJ2; RTD
Locus ID:	5972



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UniProt ID: [P00797](#)

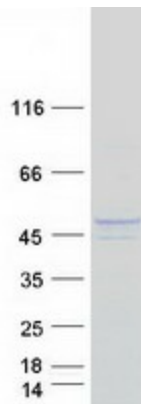
Cytogenetics: 1q32.1

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 angiotensin 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]).