

Prorenin, Native Protein | REN protein

Human Prorenin, Native

CATALOG # AAA37790	HOST Human Embryonic Kidney cells
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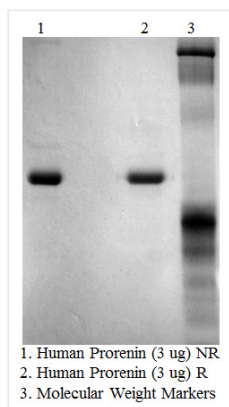
PRODUCT SYNONYMS

Prorenin; Native; Human Prorenin; REN protein

PRODUCT SPECIFICATIONS

Host	Human Embryonic Kidney cells
Purity/Purification	>95% by SDS-PAGE analysis
Form/Format	Frozen liquid. 0.05M Tris-HCl; 0.15M NaCl; pH 8.0
Concentration	1.0 mg/ml (varies by lot)
Sequence Length	406
UV Absorbance (280 nm)	1.1
Extinction Coefficient	1.1
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store at -70°C. Ships on Dry Ice.

IMAGES



Application Data

ADDITIONAL INFORMATION

Related Product Information for REN protein	Recombinantly produced in HEK cell culture as untagged native form prorenin and purified by affinity chromatography. Fully activatable to renin by catalytic amounts of trypsin. Prorenin is a glycosylated aspartic protease that consists of 2 homologous lobes and is the precursor of renin. Prorenin exhibits a low level of enzymatic activity relative to renin which is generated from prorenin by proteolytic cleavage of the first ~43 amino acids at the N-terminus. This so called prosegment appears to block the full enzymatic potential of the active site (1). Renin activates the renin-angiotensin system by cleaving angiotensinogen, produced by the liver, to yield angiotensin I, which is further converted into angiotensin II by ACE, the angiotensin-converting enzyme primarily within the capillaries of the lungs. It has been reported that the levels of circulating prorenin (but not renin) are increased in diabetic subjects(2).
Product Categories/Family for REN protein	Renin/Prorenin; Human Prorenin

NCBI AND UNIPROT INFORMATION

NCBI GI #	4506475
NCBI GeneID	5972
NCBI Accession #	NP_000528.1
NCBI GenBank Nucleotide #	NM_000537.3
UniProt Accession #	P00797; Q6FI38; Q6T5C2
Molecular Weight	43,725 by SDS-PAGE
NCBI Official Full Name	renin preproprotein
NCBI Official Synonym Full Names	renin
NCBI Official Symbol	REN
NCBI Official Synonym Symbols	HNFJ2
NCBI Protein Information	renin; angiotensinogenase; renin precursor, renal; angiotensin-forming enzyme
UniProt Protein Name	Renin
UniProt Gene Name	REN
UniProt Entry Name	RENI_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/human-embryonic-kidney-ren-protein/prorenin-native/37790>