

Recombinant Human Renin

Cat. No. REN-5473H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinantly produced in HEK cell culture as untagged native form prorenin and purified by affinity chromatography.
Species	Human
Source	HEK293
Description	REN 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.
Form	Frozen liquid in 10mM Tris Buffer + 0.1 M NaCl, pH 8.0.
Purity	>95% by SDS-PAGE analysis
Molecular Weight	43.725 kDa
Endotoxin Level	< 0.1 ng/μg of protein
Concentration	1.0 mg/ml
Storage	Store at -80°C. Stable for 3 years from delivery. Avoid repeated freeze-thaw cycles.

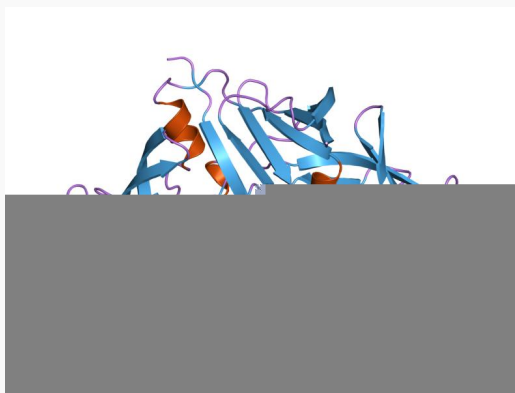
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OfficialSymbol	REN
Pathways	ACE InhibitorPathway; Renin-angiotensin system
GENE INFORMATION	
Gene Name	REN renin [Homo sapiens]
Synonyms	REN;renin; HNFJ2; OTTHUMP00000034311; angiotensinogenase; reninprecursor, renal; angiotensin-forming enzyme; EC 3.4.23.15; Renin; Angiotensinogenase
Gene ID	5972
mRNA Refseq	NM_000537
Protein Refseq	NP_000528
MIM	179820
UniProt ID	P00797
Chromosome Location	1q32
Function	aspartic-typeendopeptidase activity; insulin-like growth factor receptor binding;peptidase activity; receptor binding

PDB rendering
based on 2ren.



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