

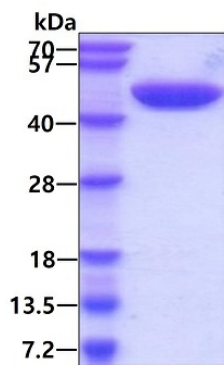
HuPro®

REN (Human) Recombinant Protein

Catalog # P7880

Size 500 ug

Applications



SDS-PAGE analysis of REN (Human) Recombinant Protein.

Specification

Product Description	Human REN (P00797, 24 a.a. - 406 a.a.) partial recombinant protein with His tag expressed in HEK 293 cells.
Sequence	LPTDTTTFKRIFLKRMPsIRESLKERGVDMARLGPEWSQPMKRLTLGNTTSSVILTNYMDTQYYGEI GIGTPPQTFKVVFDTGSSNVWVPSSKCSRlyTACVYHKLFDASDSSSYKHNGTELTLRYSTGTVS GFLSQDIITVGGITVTQMFGEVTEMPALPFMLAEFDGVVGMGFIEQAIGRVTPIFDNIISQGVLKEDV FSFYNRDSENSQSLGGQVLGGSDPQHIEGNFHYINLKTGVWQIQMKGVSVGSSTLLCEDGCLA LVDTGASYISGSTSSIEKLMEALGAKKRLFDYVVKCNEGPTLPDISFHLGGKEYTLTSADYVFQESY SSKKLCTLAIHAMDIPPTGPTWALGATFIRKFYTEFDRRNNRIGFALAR
Host	Human
Theoretical MW (kDa)	43.1
Form	Liquid
Preparation Method	Mammalian cell (HEK 293) expression system
Purity	> 95% as analyzed by SDS-PAGE.
Endotoxin Level	< 1 EU/ug of protein by the LAL method.

Quality Control Testing

SDS-PAGE Stained with Coomassie Blue.
SDS-PAGE analysis of REN (Human) Recombinant Protein.

Recommend Usage

SDS-PAGE
The optimal working dilution should be determined by the end user.

Storage Buffer

In PBS, pH 7.4 (10% glycerol)

Storage Instruction

Store at 4°C for 1 week. For long term storage store at -20°C to -80°C.
Aliquot to avoid repeated freezing and thawing.

Applications

- SDS-PAGE

Gene Info — REN

Entrez GeneID

[5972](#)

Protein Accession#

[P00797](#)

Gene Name

REN

Gene Alias

FLJ10761

Gene Description

renin

Omim ID

[179820](#) [267430](#)

Gene Ontology

[Hyperlink](#)

Gene Summary

Renin catalyzes the first step in the activation pathway of angiotensinogen--a cascade that can result in aldosterone release, vasoconstriction, and increase in blood pressure. Renin, an aspartyl protease, cleaves angiotensinogen to form angiotensin I, which is converted to angiotensin II by angiotensin I converting enzyme, an important regulator of blood pressure and electrolyte balance. 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 familial hyperproreninemia. [provided by RefSeq]

Other Designations

OTTHUMP00000034311|angiotensin-forming enzyme|angiotensinogenase|renin precursor, renal

Pathway

- [Renin-angiotensin system](#)

Disease

- [Alzheimer disease](#)
- [Arrhythmias](#)
- [Brain Ischemia](#)
- [Cardiovascular Diseases](#)
- [Carotid Stenosis](#)
- [Cerebrovascular Accident](#)
- [Chorioamnionitis](#)
- [Coronary Artery Disease](#)
- [Death](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Diabetic Angiopathies](#)
- [Diabetic Nephropathies](#)
- [Edema](#)
- [Emergencies](#)
- [Fetal Membranes](#)
- [Genetic Predisposition to Disease](#)
- [Glaucoma](#)
- [Hyperaldosteronism](#)
- [Hyperlipidemias](#)
- [Hypertension](#)
- [Kidney Failure](#)
- [Metabolic Syndrome X](#)

- [Myocardial Infarction](#)
- [Neoplasms](#)
- [Obstetric Labor](#)
- [Osteoporosis](#)
- [Pre-Eclampsia](#)
- [Premature Birth](#)
- [Renal Insufficiency](#)
- [Tobacco Use Disorder](#)