

Renin Protein, Mouse (HEK293, His)

Cat. No.:	HY-P71081
Synonyms:	Renin-1; Angiotensinogenase; Kidney renin; Ren1; Ren; Ren-1
Species:	Mouse
Source:	HEK293
Accession:	P06281 (L22-R402)
Gene ID:	19701
Molecular Weight:	48-60 kDa

PROPERTIES

AA Sequence	<pre> L P T R T A T F E R I P L K K M P S V R E I L E E R G V D M T R L S A E W G V F T K R P S L T N L T S P V V L T N Y L N T Q Y Y G E I G I G T P P Q T F K V I F D T G S A N L W V P S T K C S R L Y L A C G I H S L Y E S S D S S S Y M E N G S D F T I H Y G S G R V K G F L S Q D S V T V G G I T V T Q T F G E V T E L P L I P F M L A K F D G V L G M G F P A Q A V G G V T P V F D H I L S Q G V L K E E V F S V Y Y N R G S H L L G G E V V L G G S D P Q H Y Q G N F H Y V S I S K T D S W Q I T M K G V S V G S S T L L C E E G C A V V V D T G S S F I S A P T S S L K L I M Q A L G A K E K R I E E Y V V N C S Q V P T L P D I S F D L G G R A Y T L S S T D Y V L Q Y P N R R D K L C T L A L H A M D I P P P T G P V W V L G A T F I R K F Y T E F D R H N N R I G F A L A R </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Renin Protein is a highly specific endopeptidase that serves a singular function of generating angiotensin I from angiotensinogen within the plasma. This enzymatic activity acts as the catalyst for a cascade of reactions, ultimately leading
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to an elevation in blood pressure and increased sodium retention by the kidney.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA