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Recombinant Mouse Renin-1/REN1 Protein

Catalog No.: RP02135 Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Mouse	19701	P06281

Tags
C-His

Synonyms
D19352; Ren; Ren-1; Ren-A; Ren1c; Ren1d; Rn-1; Rnr; REN1

Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

Calculated MW	Observed MW
43.5 kDa	41-60 kDa

Endotoxin
< 1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.Contact us for customized product form or formulation.

Reconstitution
Centrifuge the tube before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

400-999-6126

cn.market@abclonal.com.cn

www.abclonal.com.cn

Background

Mouse Renin, also known as Renin-1,is a member of the peptidase A1 amily. Renin is synthesized by the juxtaglomerular cells of the kidney in response to decreased blood pressure and sodium concentration. It cleaves angiotensinogen to generate angiotensin I, which can be further converted by angiotensin converting enzyme (ACE) to angiotensin II. Angiotensin II is the active molecule of the reninangiotensin system that acts by binding to angiotensin receptors type 1 and 2 (AT1 and AT2),and has direct pathophysiological effects on the heart and peripheral vasculature. After secretion, inactive prorenin can be proteolytically activated by trypsin, cathepsin B, or other proteinases.

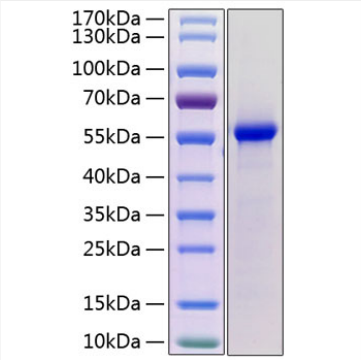
Basic Information

Description
Recombinant Mouse Renin-1/REN1 Protein is produced by Mammalian expression system. The target protein is expressed with sequence (Leu22-Arg402) of Mouse Renin-1/REN1 (Accession #P06281) fused with a 10xHis tag at the C-terminus.

Bio-Activity

Storage
Store at -20℃.Store the lyophilized protein at -20℃ to -80 ℃ up to 1 year from the date of receipt.
After reconstitution, the protein solution is stable at -20℃ for 3 months, at 2-8℃ for up to 1 week.
Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Mouse Renin/REN1 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 50-60kDa.