

Recombinant Mouse Renin-1/REN1 Protein

Catalog No.: RP02135 Recombinant

Sequence Information

Species Gene ID Swiss ProtMouse 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 % as determined 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

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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

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

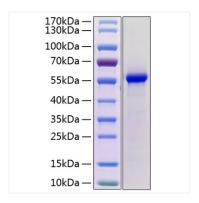
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

Validation Data



Recombinant Mouse Renin-1/REN1 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.