Recombinant Mouse REN1/Renin-1 Protein (His Tag)

Catalog Number:PKSM041281

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Note: Centrifuge before opening to ensure complete recovery of vial contents.

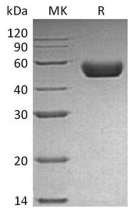
Description

Synonyms	Renin-1;Angiotensinogenase;Kidney renin;Ren1;Ren;Ren-1;Angiotensin-forming enzyme;Ren-A;Ren1c;Ren1d;Rn-1;Rnr
Species	Mouse
Expression Host	HEK293 Cells
Sequence	Leu22-Arg402
Accession	P06281
Calculated Molecular Weight	43.5 kDa
Observed molecular weight	41-60 kDa
Tag	C-His

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

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.

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