A Reliable Research Partner in Life Science and Medicine

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

Catalog Number: PKSM040760

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

ъ .	
Descri	ntion
Descii	PULL

Species Mouse

Source HEK293 Cells-derived Mouse REN1/Renin-1 protein Met 1-Arg 402, with an C-terminal

His

 Mol_Mass
 43.2 kDa

 Accession
 NP_112469.1

Bio-activity Measured by its ability to cleave the fluorogenic peptide substrate 5-FAM/QXLTM 520

(Peti-Peterdi, J. et al., 2009, Physiology 24:88.). The specific activity is > 20

pmoles/min/µg. 2. Immobilized mouse REN1-His at 10ug/ml (100 µl/well) can bind

biotinylated human AGT-His with a linear range of 31. 25-250 ng/ml.

Properties

Purity > 97 % 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

°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of

reconstituted samples are stable at < -20°C for 3 months.

Shipping This product is provided as lyophilized powder which is shipped with ice packs.

Formulation Lyophilized from sterile PBS, pH 7.4

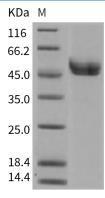
Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants

before lyophilization.

Please refer to the specific buffer information in the printed manual.

Reconstitution Please refer to the printed manual for detailed information.

Data



> 97 % as determined by reducing SDS-PAGE.

Background

For Research Use Only

Fax: 1-832-243-6017

Elabscience Bionovation Inc.

A Reliable Research Partner in Life Science and Medicine

Elabscience®

Renin-1, also known as Ren-1, Angiotensinogenase and Kidney renin, is a member of thepeptidase A1 family. Renin-1 is synthesized by the juxtaglomerular cells of the kidney in response to decreased blood pressure and sodium concentration. androgen and thyroid hormones influence levels of Renin-1 in mouse submandibular gland (SMG) primarily by regulating the amount of Renin-1 mRNA available for translation. Renin-1 is a highly specific endopeptidas e, whose only known function is to generate angiotensin I from angiotensinogen in the plasma, initiating a cascade of reactions that produce an elevation of blood pressure and increased sodium retention by the kidney. It is expressed at relatively low levels in mouse SMG and kidney. Ren-2 is expressed at high levels in the mouse SMG and at very low levels, if at all, in the kidney. Ren-1 and Ren-2 are closely linked on mouse chromosome 1, show extensive homology in coding and noncoding regions and provide a model for studying the regulation of gene expression.

Fax: 1-832-243-6017