

Datasheet for ABIN7320334
Renin Protein (REN) (His tag)[Go to Product page](#)

1 Image

Overview

Quantity:	50 µg
Target:	Renin (REN)
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This Renin protein is labelled with His tag.

Product Details

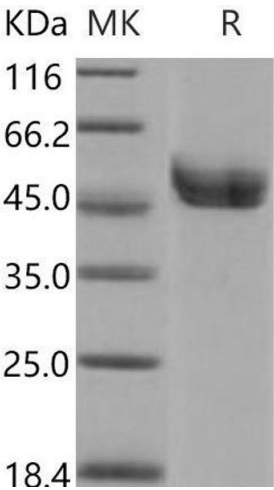
Purpose:	Recombinant Mouse REN1/Renin-1 Protein (His Tag)(Active)
Sequence:	Met 1-Arg 402
Characteristics:	A DNA sequence encoding the pro form of mouse REN1 (NP_112469.1) (Met 1-Arg 402) was fused with a polyhistidine tag at the C-terminus.
Purity:	> 97 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method.
Biological Activity Comment:	1. Measured by its ability to cleave the fluorogenic peptide substrate 5-FAM/QXL™ 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.

Target Details

Target:	Renin (REN)
Alternative Name:	REN1/Renin-1 (REN Products)
Background:	<p>Background: Renin-1, also known as Ren-1, Angiotensinogenase and Kidney renin, is a member of the peptidase 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 endopeptidase, 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.</p> <p>Synonym: Renin-1; Angiotensinogenase; Kidney renin; Ren1; Ren; Ren-1;Angiotensin-forming enzyme;Ren-A;Ren1c;Ren1d;Rn-1;Rnr</p>
Molecular Weight:	43.2 kDa
NCBI Accession:	NP_112469
Pathways:	ACE Inhibitor Pathway , Peptide Hormone Metabolism , Regulation of Systemic Arterial Blood Pressure by Hormones , Feeding Behaviour

Application Details

Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile PBS, pH 7.4
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	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.



Western Blotting

Image 1.