

Active Recombinant Mouse Ren1 protein, His-tagged

Cat. No. Ren1-2305M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Ren1 protein(NP_112469.1)(Met1-Arg402), fused with His tag, was expressed in HEK293.
Species	Mouse
Source	HEK293
ProteinLength	1-402 a.a.
Form	Lyophilized from sterile PBS, pH 7.4Please contact us for any concerns or special requirements. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.
Bio-activity	1. Measured by its ability to cleave the fluorogenic peptide substrate 5FAM/QXL 520 (PetiPeterdi, 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.
Molecular Mass	The recombinant mouse REN1 consists of 392 amino acids and has a predicted molecular mass of 43.2 kDa. As a result of glycosylation, the apparent molecular mass of rmREN1 is approximately 48-55 kDa in SDS-PAGE under reducing conditions.
Proteinlength	Met1-Arg402

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Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method
Purity	> 97 % as determined by SDS-PAGE
Storage	Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	Ren1 renin 1 structural [<i>Mus musculus</i>]
Official Symbol	Ren1
Synonyms	REN1; renin 1 structural; renin-1; renin b; kidney renin; aspartyl-protease; angiotensinogenase; Ren; Rnr; Rn-1; Ren-1; Ren-A; Ren1c; Ren1d; D19352;
Gene ID	19701
mRNA Refseq	NM_031192
Protein Refseq	NP_112469

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