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Recombinant Mouse Prorenin - Purified

Alternate names: Angiotensinogenase, HNFJ2, REN, angiotensin-forming enzyme

Catalog No.: AR31014PU-N

Quantity: 1 mg

Concentration: 1.7 mg/ml (OD280nm, E0.1% = 1.10)

Background: Renin catalyzes the first step in the activation pathway of angiotensinogen--a cascade that

can result in aldosterone release, vasoconstriction, and increase in blood pressure. Renin, an aspartyl protease, cleaves angiotensinogen to form angiotensin I, which is converted to

angiotensin II by angiotensin I converting enzyme, an important regulator of blood

pressure and electrolyte balance. Transcript variants that encode different protein isoforms and that arise from alternative splicing and the use of alternative promoters have been described, but their full-length nature has not been determined. Mutations in this gene

have been shown to cause familial hyperproreninemia.

 Uniprot ID:
 P06281

 NCBI:
 NP_112469

 GeneID:
 19701

 Species:
 Mouse

Source: Kidney cells, (Human embryonic)
Format: State: Liquid purified protein.

Purity: >95% by SDS-PAGE (Chelated Metal Affinity Chromatography).

Buffer System: 50mM Tris, pH 8.0 without preservatives.

Applications: Recombinant Mouse Prorenin.

Contains 8X-Histidine tag at C terminus.

Fully activatable to Renin by catalytic amounts of Trypsin.

381 amino acids + 8 histidine residues.

Other applications not tested. Optimal dilutions are dependent on conditions and should

be determined by the user.

Description: Recombinant Mouse Prorenin. Contains 8X-Histidine tag at C terminus. Resistant to

activation to Renin by Trypsin digestion. 380 amino acids + 8 histidine residues.

Molecular weight: 41,711 Da (less glycosylation)

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

Storage: Store the antigen at -70°C

Aliquot to avoid multiple freeze/thaw cycles.

Shelf life: one year from despatch.

General Readings: 1. A.H. Jan Danser, Jaap Deinum (2005), "Renin, Prorenin and the Putative (Pro)renin

Receptor." Hypertension 46:1069.

For research and in vitro use only. Not for diagnostic or therapeutic work.

Material Safety Datasheets are available at www.acris-antibodies.com or on request.

Acris Antibodies is now part of the OriGene family. Learn more at www.origene.com



OG/20130514



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2. Luetscher JA, Kraemer FB, Wilson DM, Schwartz HC, Bryer-Ash M. Increased plasma inactive renin in diabetes mellitus. A marker of microvascular complications. N Engl J Med. 1985 May 30;312(22):1412-7. PubMed PMID: 3887168.

