CREATIVE BIOMART®
Assay Kit

Rat Renin Activity Fluorometric Assay Kit

Product Information

Cat

Kit-0763

Common Name

Renin

Cat.No. Kit-0763

Product Overview

Rapid, simple & convenient
The assay can detect rat renin activity as low as 0.12 mU recombinant rat renin.

Description

Renin (EC 3.4.23.15), also known as angiotensinogenase, is an enzyme that participates in the renin-angiotensin system (RAS) which mediates extracellular volume (i.e. blood plasma, lymph and interstitial fluid), and arterial vasoconstriction. In addition to the systemic RAS, locally expressed RAS has been found in the kidney, heart and nervous system. An overactive renin-angiotensin system leads to vasoconstriction and retention of sodium and water, causing hypertension. Renin inhibitors are widely used for the treatment of hypertension. In Rat Renin Activity Assay Kit, Rat Renin and other proteases hydrolyze a FRET substrate resulting in fluorescence at Ex/Em = 328/552 nm. In the presence of a Rat Renin-Specific Inhibitor, hydrolysis of the substrate is due to only the activity of other proteases. The difference between the total activity and the activity in the presence of Rat Renin-Specific Inhibitor gives the Rat Renin Activity in the sample. This rapid, simple & sensitive kit can detect renin activity as low as 0.12 mU recombinant rat renin.

Applications

Detects Rat Renin Activity

Usage

For Research Use Only! Not For Use in Humans.

Storage

Tel: 1-631-559-9269 1-516-512-3133
Email:info@creative-biomart.org
Fax:1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

CREATIVE BIOMART®
Assay Kit

Rat Renin Activity Fluorometric Assay Kit

-20°C

Size

100 assays

Kit Components

- Renin Assay Buffer
- Homogenization Buffer
- Rat Renin Substrate
- Rat Renin (Lyophilized)
- Rat Renin Inhibitor (Lyophilized)
- EDANS Standard (100 μM)

Detection method Fluorescence (Ex/Em = 328/552 nm)

Compatible Sample Types

- Crude extracts and purified Recombinant protein
- Tissue lysate

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