CREATIVE BIOMART®
Assay Kit

Angiotensin II Converting Enzyme (ACE2) Activity Assay Kit (Fluorometric)

Product Information

Cat

Kit-2210

Cat.No. Kit-2210

Product Overview

Angiotensin II converting enzyme (ACE2, EC 3.4.17.23), a zinc-based metalloprotease, is part of the renin-angiotensin system (RAS) that controls the regulation of blood pressure by cleaving the C-terminal dipeptide of Angiotensin II to convert it into Angiotensin 1-7. ACE2 is a receptor of human coronaviruses, such as SARS and HCoV-NL63. It is expressed on the vascular endothelial cells of lung, kidney and heart. ACE2 is a potential therapeutic target for cardiovascular and coronavirus-induced diseases.ACE2 Activity Assay Kit kit will help the research progress in this field. This kit utilizes the ability of an active ACE2 to cleave a synthetic MCA based peptide substrate to release a free fluorophore. The released MCA can be easily quantified using a fluorescence microplate reader. We also provide an ACE2 specific inhibitor that can differentiate the ACE2 activity from other proteolytic activity. The kit can detect as low as 0.4 mU. Our assay kit is simple and can be used in a high-throughput format.

Applications

Detection of ACE2 activity in tissue/cell lysates and enzyme preparations.

Storage

-20°C

Shipping

Gel Pack

Size

100 assays

Kit Components

ACE2 Assay Buffer; ACE2 Dilution Buffer; ACE2 Lysis Buffer; ACE2 Positive Control; ACE2 Substrate;

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Assay Kit

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ACE2 Inhibitor (22 mM); MCA-Standard (1 mM)

Target Species

Mammalian

Detection method Fluorometric (Ex/Em = 320/420 nm)

Features & Benefits

Simple one-step reaction;
Takes only 1-2 hrs;
Non-radiometric fluorescent detection;
HTP adaptable

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