CREATIVE BIOMART®
Assay Kit

Angiotensin I Converting Enzyme (ACE1) Inhibitor Screening Kit

Product Information

Cat

Kit-2408

Cat.No. Kit-2408

Product Overview

Angiotensin I converting enzyme (ACE1, EC: 3.4.15.1), a dipeptidyl carboxypeptidase, is part of the renin-angiotensin system (RAS) that controls regulation of blood pressure by cleaving the C-terminal dipeptides of angiotensin I and bradykinin. It is found on the luminal surface of vascular endothelial cells, especially in pulmonary tissues. In addition, elevated levels of ACE1 are found in sarcoidosis, leprosy, hyperthyroidism, acute hepatitis, primary biliary cirrhosis, diabetes mellitus, multiple myeloma, osteoarthritis, amyloidosis, Gaucher disease, pneumoconiosis, histoplasmosis and miliary tuberculosis. ACE1 Inhibitor Screening Kit can be used to screen for potent inhibitors of ACE1 activity to regulate hypertension. It utilizes the ability of an active ACE1 to cleave a synthetic o-aminobenzoyl peptide (Abz-based peptide substrate to release a free fluorophore). The released Abz can be easily quantified using a fluorescence microplate reader. In the presence of an ACE1 specific inhibitor, the enzyme loses its peptidase activity which results in decrease of fluorescence intensity. This assay kit is simple and can be used to identify and characterize ACE1 inhibitors in a high-throughput format.

Applications

Screening/studying/characterizing inhibitors of ACE1

Storage

-20°C

Shipping

Gel Pack

Size

100 assays

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

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Kit Components
ACE1 Assay Buffer; ACE1 Dilution Buffer; ACE1 Enzyme;ACE1 Substrate; ACE1 Inhibitor (10 mM Captopril)
Detection method Fluorometric (Ex/Em = 330/430 nm)
Features & Benefits
Simple one-step reaction; Takes only 1-2 hrs; Non-radiometric fluorescent screening process; HTP adaptable

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