CREATIVE BIOMART®
Assay Kit

Cathepsin E Inhibitor Screening Kit

Product Information

Cat.No. Kit-2154

Product Overview

Cathepsin E Inhibitor Screening Kit utilizes the ability of Cathepsin E to cleave a synthetic MCA-based peptide substrate to release free MCA, which can be easily quantified using a fluorometer or fluorescence microplate reader. In the presence of a Cathepsin E-specific inhibitor, the cleavage of the substrate is reduced/abolished resulting in decrease or total loss of the MCA fluorescence. This simple and high-throughput adaptable assay kit can be used to screen/study/characterize the potential inhibitors of Cathepsin E.

Size

100 assays

Description

Cathepsin E (CTSE, EC: 3.4.23.34) is a gastric aspartyl protease that functions as a disulfide-linked homodimer. This protease has a specificity similar to that of pepsin A and cathepsin D. It is an intracellular proteinase that is found in highest concentration on the surface of epithelial mucus-producing cells of the stomach. It is the first aspartic proteinase expressed in the fetal stomach and is found in more than half of the gastric cancers.

Applications

Screen/study/characterize potential inhibitors of Cathepsin E

Storage

Store kit at -20°C, protected from light. Briefly centrifuge small vials at low speed prior to opening. Read the entire protocol before performing the experiment.CTSE Assay Buffer: Bring to room temperature before use. Store at 4°C or -20°C.Human Cathepsin E: Reconstitute in 220 µl of de-ionized water. Aliquot and store at -20°C. Avoid repeated freeze/thaw. Use within two months.

Kit Components

CTSE Assay Buffer: 25 mlHuman Cathepsin E: 1 vialCTSE Substrate: 0.2 mlCTSE Inhibitor (1 mM

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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Pepstatin A in DMSO): 20 μl

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

Features & Benefits

• Convenient & Rapid• High-throughput adaptable assay to screen/study/characterize the potential inhibitors of Cathepsin E• Cathepsin E inhibitor is included in the kit

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