CREATIVE BIOMART®
Assay Kit

Cathepsin G Inhibitor Screening Kit

Product Information

Cat.No. Kit-2155

Product Overview

Cathepsin G Inhibitor Screening Kit utilizes the ability of active Cathepsin G to cleave a synthetic pNA (4-Nitroaniline)-based peptide substrate to release pNA, which can be easily quantified using a colorimetric microplate reader. In the presence of a Cathepsin G inhibitor, the cleavage of this substrate is reduced/abolished resulting in decrease or total loss of the pNA absorbance. This simple and high-throughput adaptable assay kit can be used to screen/study/characterize potential inhibitors of Cathepsin G.

Size

100 assays

Description

Cathepsin G (CTSG, EC 3.4.21.20) is a Serine protease found in azurophil granules of neutrophilic polymorphonuclear leukocytes. The encoded protease has specificity similar to that of chymotrypsin C, and may participate in the killing and digestion of engulfed pathogens, and in connective tissue remodeling at sites of inflammation.

Applications

Screen/study/characterize potential inhibitors of Cathepsin G

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 assay.CTSG Assay Buffer: Warm CTSG Assay Buffer to room temperature before use.Cathepsin G (human): Reconstitute in 110 μl of CTSG Assay Buffer. Mix by gently pipetting up & down. Aliquot and store at -80°C. Avoid repeated freeze/thaw.

Kit Components

CTSG Assay Buffer: 20 mlCathepsin G (human): 1 vialCTSG Substrate: 0.2 mlCTSG Inhibitor (0.5 mM): 20 µl

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Detection method Absorbance (OD 405 nm)

Features & Benefits

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

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