CREATIVE BIOMART®
Assay Kit

Cathepsin D Inhibitor Screening Kit

Product Information

Cat.No. Kit-0264

Product Overview

CTSD Inhibitor Screening Kit is used for screening cathepsin D inhibitor.

Description

Apoptosis can be mediated by mechanisms other than the traditional caspase-mediated cleavage cascade. There is growing recognition that alternative proteolytic enzymes such as the lysosomal cathepsin proteases may initiate or propagate proapoptotic signals. Cathepsins are lysosomal enzymes that are also used as sensitive markers in various toxicological investigations. The Cathepsin D Activity Assay kit is a fluorescence-based assay that utilizes the preferred cathepsin D substrate sequence GKPILFFRLK(DNP)-D-R- NH2) labeled with MCA. Cathepsin D will cleave the synthetic substrate to release the quenched fluorescent group MCA, which can then easily be measured using a fluorometer or fluorescence plate reader at Ex/Em = 328/460 nm. The relative efficacy of test inhibitors are compared to the positive control inhibitor, Pepstatin A (IC50< 0.1 nM). The Cathepsin D assay is simple, straightforward, and can be adapted to 96-well plate assays and is suitable for high throughput screening (HTS).

Target Species

Mammals

Usage

For research use only (RUO)

Storage

Store kit at -20°C (Store CD Reaction Buffer at 4°C after opening). Protect CD Substrate from light. Store Cathepsin D vial at -80°C. All reagents are stable for 6 months under proper storage conditions.

Kit Components

CD Reaction Buffer. Cap color: WM. 10 mlCD Substrate (1 mM). Cap color: brown. 0.2 mlCathepsin

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D, human (lyophilized). Cap color: green. 1 vialPepstatin A (1 mM in DMSO). Cap color: blue. 20 µl

Detection method Fluorometric

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