CREATIVE BIOMART®
Assay Kit

Cathepsin B Activity Fluorometric Assay Kit II

Product Information

Cat

Kit-2271

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Product Overview

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-B Activity Assay kit is a fluorescence-based assay that utilizes the preferred cathepsin-B substrate sequence RR labeled with AFC (amino-4-trifluoromethyl coumarin). Cell lysates or other samples that contain cathepsin-B will cleave the synthetic substrate RR-AFC to release free AFC. The released AFC can easily be quantified using a fluorometer or fluorescence plate reader.

Applications

Detects alternative proteolytic enzymes such as the lysosomal cathepsin proteases that can initiate or propagate proapoptotic signals.

Storage

-20°C

Shipping

Gel Pack

Size

100 assays

Kit Components

CB Cell Lysis Buffer; CB Reaction Buffer; CB Substrate Ac-RR-AFC (10 mM); CB Inhibitor (1 mM)

Target Species

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Fax:1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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Assay Kit

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Mammalian

Detection method Fluorescence (Ex/Em 400/505) and fluorometer

Features & Benefits

Simple one-step procedure; takes only 1-2 hours;
Fast and convenient;
Cathepsin-B assay is straightforward, and can be adapted to 96-well plate assays.

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