CREATIVE BIOMART®
Assay Kit

Cathepsin S Activity Fluorometric Assay Kit

Product Information

Cat.No. Kit-0187

Product Overview

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

Size

100 assays

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-S Activity Assay kit is a fluorescence-based assay that utilizes the preferred cathepsin-S substrate sequence VVR labeled with AFC (amino-4-trifluoromethyl coumarin). Cell lysates or other samples that contain cathepsin-S will cleave the synthetic substrate Z-VVR-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.

Target Species

Mammalian

Usage

For Research Use Only! Not For Use in Humans.

Storage

-20°C

Kit Components

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• CS Cell Lysis Buffer • CS Reaction Buffer • CS Substrate Z-VVR-AFC (10 mM)• CS Inhibitor (1 mM)

Detection method Fluorescence (Ex/Em 400/505)

Compatible Sample Types

Cell and tissue lysates

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