CREATIVE BIOMART®
Assay Kit

Cathepsin G Activity Colorimetric Assay Kit

Product Information

Cat

Kit-0183

Common Name

Cathepsin

Cat.No. Kit-0183

Product Overview

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

Description

Cathepsin G is an enzymatic protein belonging to the peptidase or protease families. The protein is found in azurophil granules of neutrophilic polymorphonuclear leukocytes. The encoded protease has a 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. In Cathepasin G Activity assay Kit, Cathepsin G will cleave the substrate and release the dye group, pNA (4-Nitroaniline), which can be detected at 405 nm. In presence of the Cathepsin G specific inhibitor, the cleavage will be stopped. The kit provides a rapid, simple, sensitive, and reliable test suitable for the activity of Cathepsin G.

Applications

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

Usage

For Research Use Only! Not For Use in Humans

Storage

-20°C

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Cathepsin G Activity Colorimetric Assay Kit

Size

100 assays

Kit Components

- Assay Buffer
- Substrate
- Cathepsin G Inhibitor
- pNA Standard (0.1 M)
- Positive Control

Target Species

Mammalian

Detection method Absorbance (405 nm)

Compatible Sample Types

Cell and tissue lysates, serum

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