CREATIVE BIOMART®
Assay Kit

Cathepsin G Activity Assay Kit

Product Information

Cat.No. Kit-0265

Product Overview

CTSG Activity Assay Kit is a quantitative fluorometric determination of cathepsin G avtivity.

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 CTSG Activity Assay Kit, Cathepsin G will cleave the substrate and release the dye group, pNA (4-Nitroaniline), which can be detect 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.

Target Species

Mammals

Usage

For research use only (RUO)

Storage

Store the kit at -20°C, protect from light. Allow Assay Buffer to warm to room temperature before use.Briefly centrifuge vials before opening. Read the entire protocol before performing the assay.Reconstitute positive control with 20 µl dH2O. Store in -20°C, avoid thaw and freeze cycle, good for using in 1 month.

Kit Components

Assay Buffer. Cap code: WM. 25 mlSubstrate. Cap code: red. 200 µlCathepsin G Inhibitor. Cap code: blue. 20 µlpNA Standard (0.1 M) . Cap code: yellow. 20 µlPositive Control. Cap code: green. 1 vial

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Cathepsin G Activity Assay Kit

Detection method Colorimetric

Compatible Sample Types

Cell Lysate, Serum, Tissue Lysate

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