

# Cathepsin G Activity Colorimetric Assay Kit

**Cat. No.** Kit-0183    **Lot. No.** (See product label)

## SPECIFICATION

**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 Cathepsin 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

**Size**      100 assays

**Kit Components**

- Assay Buffer
- Substrate

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

<b>Target Species</b>	Mammalian
<b>Detection method</b>	Absorbance (405 nm)
<b>Compatible Sample Types</b>	Cell and tissue lysates, serum

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