

## 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 activity.

**Description**

Cathepsin G is an enzymatic protein belonging to the peptidase or protease families. The protein is found in azurophilic 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 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.

**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 dH<sub>2</sub>O. Store in -20°C, avoid thaw and freeze cycle, good for using in 1 month.

**Kit Components**

Assay Buffer. Cap code: WM. 25 ml Substrate. Cap code: red. 200 µl Cathepsin G Inhibitor. Cap code: blue. 20 µl pNA Standard (0.1 M). Cap code: yellow. 20 µl Positive Control. Cap code: green.

## Cathepsin G Activity Assay Kit

1 vial

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**Detection method** Colorimetric

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**Compatible Sample Types**

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Cell Lysate, Serum, Tissue Lysate

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