



## Cathepsin G Inhibitor Screening Kit

### Product Information

#### Cat.No.

Kit-2155

### Product Overview

Cathepsin G Inhibitor Screening Kit utilizes the ability of active Cathepsin G to cleave a synthetic pNA (4-Nitroaniline)-based peptide substrate to release pNA, which can be easily quantified using a colorimetric microplate reader. In the presence of a Cathepsin G inhibitor, the cleavage of this substrate is reduced/abolished resulting in decrease or total loss of the pNA absorbance. This simple and high-throughput adaptable assay kit can be used to screen/study/characterize potential inhibitors of Cathepsin G.

#### Size

100 assays

### Description

Cathepsin G (CTSG, EC 3.4.21.20) is a Serine protease found in azurophilic granules of neutrophilic polymorphonuclear leukocytes. The encoded protease has 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.

### Applications

Screen/study/characterize potential inhibitors of Cathepsin G

### Storage

Store kit at -20°C, protected from light. Briefly centrifuge small vials at low speed prior to opening. Read the entire protocol before performing the assay. CTSG Assay Buffer: Warm CTSG Assay Buffer to room temperature before use. Cathepsin G (human): Reconstitute in 110  $\mu$ l of CTSG Assay Buffer. Mix by gently pipetting up & down. Aliquot and store at -80°C. Avoid repeated freeze/thaw.

### Kit Components

CTSG Assay Buffer: 20 ml  
Cathepsin G (human): 1 vial  
CTSG Substrate: 0.2 ml  
CTSG Inhibitor (0.5 mM):



CREATIVE BIOMART<sup>®</sup>  
Assay Kit

## Cathepsin G Inhibitor Screening Kit

20 µl

---

**Detection method** Absorbance (OD 405 nm)

---

### Features & Benefits

---

- Convenient & Rapid
  - High-throughput adaptable assay to screen/study/characterize the potential inhibitors of Cathepsin G
  - Cathepsin G inhibitor is included in the kit
- 

Tel: 1-631-559-9269 1-516-512-3133

Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)

Fax: 1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA