



## Cathepsin K Inhibitor Screening Kit (Fluorometric)

### Product Information

**Cat**

Kit-2352

**Cat.No.**

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### Product Overview

Cathepsin K (CTSK, EC 3.4.22.38), a lysosomal cysteine protease, is involved in osteoclastic bone remodeling and resorption. In addition, it also degrades collagen, gelatin and elastin. Cathepsin K Inhibitor Screening Kit utilizes the ability of active Cathepsin K to cleave the synthetic AFC based peptide substrate to release AFC, which can be easily quantified using a fluorometer or fluorescence microplate reader. In the presence of a Cathepsin K-specific inhibitor, the cleavage of this substrate is reduced/abolished resulting in decrease or total loss of the AFC fluorescence. This simple and high-throughput adaptable assay kit can be used to screen/study/characterize potential inhibitors of Cathepsin K.

### Applications

Screen/study/characterize potential inhibitors of Cathepsin K.

### Storage

-20°C

### Shipping

Gel Pack

### Size

100 assays

### Kit Components

CTSK Reaction Buffer; CTSK Reagent; Cathepsin K (Human); CTSK Substrate, Ac-LR-AFC (10 mM); CTSK Inhibitor (FF-FMK, 1 mM)



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

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**Detection method** Fluorescence (Ex/Em = 400/505 nm)

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### Features & Benefits

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Simple & convenient;

High-throughput adaptable assay to screen/study/characterize the potential inhibitors of Cathepsin K;

Cathepsin K inhibitor, FF-FMK is included in the kit

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