CREATIVE BIOMART®
Assay Kit

Cathepsin K Inhibitor Screening Kit (Fluorometric)

Product Information

Cat

Kit-2352

Cat.No. Kit-2352

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)

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

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Features & Benefits

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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