Cathepsin K Inhibitor Screening Kit (Fluorometric)

Cat. No. Kit-2352 **Lot. No.** (See product label)

SPECIFICATION

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)
Features & Benefits	Simple & convenient; High-throughput adaptable assay to screen/study/characterize the potential inhibitors

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

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