

Cathepsin E Inhibitor Screening Kit

Cat. No. Kit-2154 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Cathepsin E Inhibitor Screening Kit utilizes the ability of Cathepsin E to cleave a synthetic MCA-based peptide substrate to release free MCA, which can be easily quantified using a fluorometer or fluorescence microplate reader. In the presence of a Cathepsin E-specific inhibitor, the cleavage of the substrate is reduced/abolished resulting in decrease or total loss of the MCA fluorescence. This simple and high-throughput adaptable assay kit can be used to screen/study/characterize the potential inhibitors of Cathepsin E.
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Size	100 assays
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Description	Cathepsin E (CTSE, EC: 3.4.23.34) is a gastric aspartyl protease that functions as a disulfide-linked homodimer. This protease has a specificity similar to that of pepsin A and cathepsin D. It is an intracellular proteinase that is found in highest concentration on the surface of epithelial mucus-producing cells of the stomach. It is the first aspartic proteinase expressed in the fetal stomach and is found in more than half of the gastric cancers.
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Applications	Screen/study/characterize potential inhibitors of Cathepsin E
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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 experiment. CTSE Assay Buffer: Bring to room temperature before use. Store at 4°C or -20°C. Human Cathepsin E: Reconstitute in 220 µl of de-ionized water. Aliquot and store at -20°C. Avoid repeated freeze/thaw. Use within two months.
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Kit Components	CTSE Assay Buffer: 25 mlHuman Cathepsin E: 1 vialCTSE Substrate: 0.2 mlCTSE Inhibitor (1 mM Pepstatin A in DMSO): 20 µl
Detection method	Fluorescence (Ex/Em = 320/420 nm)
Features & Benefits	• Convenient & Rapid • High-throughput adaptable assay to screen/study/characterize the potential inhibitors of Cathepsin E • Cathepsin E inhibitor is included in the kit

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