

Cathepsin E Fluorometric Activity Assay Kit

Cat. No. Kit-2145 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Cathepsin E Activity Assay Kit utilizes the ability of an active 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. This assay kit is simple, rapid and can detect Cathepsin E activity as low as 1 mU in biological samples.
Size	100 assays
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 gastric cancers.
Applications	Detection of Cathepsin E activity in tissue and cell lysates Determine activity of purified Cathepsin E
Storage	Store kit at -20°C, protected from light. Briefly centrifuge small vials at low speed prior to opening. Read entire protocol before performing the assay. CTSE Assay Buffer and Lysis Buffer: Bring to room temperature before use. Store at -20°C. Human Cathepsin E: Reconstitute with 20 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 mlCTSE Lysis Buffer: 25 mlCTSE Substrate: 0.2 mlHuman Cathepsin E (Positive Control): 1 vialMCA Standard (1 mM): 15 µl
Detection method	Fluorescence (Ex/Em = 320/420 nm)
Compatible Sample Types	• Cell and tissue lysates• Purified Cathepsin E
Features & Benefits	• Rapid & convenient• Detects Cathepsin E activity as low as 1 mU in biological samples

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