

Cathepsin B Activity Fluorometric Assay Kit II

Cat. No. Kit-2271 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Apoptosis can be mediated by mechanisms other than the traditional caspase-mediated cleavage cascade. There is growing recognition that alternative proteolytic enzymes such as the lysosomal cathepsin proteases may initiate or propagate proapoptotic signals. Cathepsins are lysosomal enzymes that are also used as sensitive markers in various toxicological investigations. The Cathepsin-B Activity Assay kit is a fluorescence-based assay that utilizes the preferred cathepsin-B substrate sequence RR labeled with AFC (amino-4-trifluoromethyl coumarin). Cell lysates or other samples that contain cathepsin-B will cleave the synthetic substrate RR-AFC to release free AFC. The released AFC can easily be quantified using a fluorometer or fluorescence plate reader.
Applications	Detects alternative proteolytic enzymes such as the lysosomal cathepsin proteases that can initiate or propagate proapoptotic signals.
Storage	-20°C
Shipping	Gel Pack
Size	100 assays
Kit Components	CB Cell Lysis Buffer; CB Reaction Buffer; CB Substrate Ac-RR-AFC (10 mM); CB Inhibitor (1 mM)
Target Species	Mammalian

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Detection method	Fluorescence (Ex/Em 400/505) and fluorometer
Features & Benefits	Simple one-step procedure; takes only 1-2 hours; Fast and convenient; Cathepsin-B assay is straightforward, and can be adapted to 96-well plate assays.

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