Cathepsin D Activity Fluorometric Assay Kit

Cat. No. Kit-0182 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Simple one-step procedure; takes only 1-2 hours Fast and convenient Cathepsin-D assay is straightforward, and can be adapted to 96-well plate assays.
Size	100 assays
Description	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-D Activity Assay kit is a fluorescence-based assay that utilizes the preferred cathepsin-D substrate sequence GKPILFFRLK (Dnp)-D-R-NH2) labeled with MCA. Cell lysates or other samples that contain cathepsin-D will cleave the synthetic substrate to release fluorescence, which can then easily be quantified using a fluorometer or fluorescence plate reader at Ex/Em = 328/460 nm.
Applications	Detects alternative proteolytic enzymes such as the lysosomal cathepsin proteases that can initiate or propagate proapoptotic signals.
Target Species	Mammalian
Usage	For Research Use Only! Not For Use in Humans
Storage	-20°C

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Kit Components	• CD Cell Lysis Buffer • CD Reaction Buffer • CD Substrate (1mM)
Detection method	Fluorescence (Ex/Em 328/460)
Compatible Sample Types	Cell and tissue lysates

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