Cathepsin S Activity Fluorometric Assay Kit

Cat. No. Kit-0187 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Simple one-step procedure; takes only 1-2 hours Fast and convenient Cathepsin-S 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-S Activity Assay kit is a fluorescence-based assay that utilizes the preferred cathepsin-S substrate sequence VVR labeled with AFC (amino-4-trifluoromethyl coumarin). Cell lysates or other samples that contain cathepsin-S will cleave the synthetic substrate Z-VVR-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.
Target Species	Mammalian
Usage	For Research Use Only! Not For Use in Humans.
Storage	-20°C

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Kit Components	• CS Cell Lysis Buffer • CS Reaction Buffer • CS Substrate Z-VVR-AFC (10 mM)• CS Inhibitor (1 mM)
Detection method	Fluorescence (Ex/Em 400/505)
Compatible Sample Types	Cell and tissue lysates

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