Cathepsin G Activity Colorimetric Assay Kit

Cat. No. Kit-0183 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Simple one-step procedure; takes only 1 hour Fast, robust and convenient Cathepsin-G assay is straightforward, and can be adapted to 96-well plate assays.
Description	Cathepsin G is an enzymatic protein belonging to the peptidase or protease families. The protein is found in azurophil granules of neutrophilic polymorphonuclear leukocytes. The encoded protease has a specificity similar to that of chymotrypsin C, and may participate in the killing and digestion of engulfed pathogens, and in connective tissue remodeling at sites of inflammation. In Cathepasin G Activity assay Kit, Cathepsin G will cleave the substrate and release the dye group, pNA (4-Nitroaniline), which can be detected at 405 nm. In presence of the Cathepsin G specific inhibitor, the cleavage will be stopped. The kit provides a rapid, simple, sensitive, and reliable test suitable for the activity of Cathepsin G.
Applications	Detects alternative proteolytic enzymes such as the lysosomal cathepsin G proteases that can initiate or propagate proapoptotic signals.
Usage	For Research Use Only! Not For Use in Humans
Storage	-20°C
Size	100 assays
Kit Components	• Assay Buffer • Substrate

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	• Cathepsin G Inhibitor • pNA Standard (0.1 M) • Positive Control
Target Species	Mammalian
Detection method	Absorbance (405 nm)
Compatible Sample Types	Cell and tissue lysates, serum

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