Cathepsin G Activity Assay Kit

Cat. No. Kit-0265 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CTSG Activity Assay Kit is a quantitative fluorometric determination of cathepsin G avtivity.
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 CTSG Activity Assay Kit, Cathepsin G will cleave the substrate and release the dye group, pNA (4-Nitroaniline), which can be detect 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.
Target Species	Mammals
Usage	For research use only (RUO)
Storage	Store the kit at -20°C, protect from light. Allow Assay Buffer to warm to room temperature before use.Briefly centrifuge vials before opening. Read the entire protocol before performing the assay.Reconstitute positive control with 20 µldH2O. Store in -20°C, avoid thaw and freeze cycle, good for using in 1 month.
Kit Components	Assay Buffer. Cap code: WM. 25 mlSubstrate. Cap code: red. 200 µlCathepsin G Inhibitor. Cap code: blue. 20 µlpNA Standard (0.1 M) . Cap code: yellow. 20 µlPositive

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	Control. Cap code: green. 1 vial
Detection method	Colorimetric
Compatible Sample Types	Cell Lysate, Serum, Tissue Lysate

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