

Cathepsin B Activity Fluorometric Assay Kit

Cat. No. Kit-0181 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	A sensitive fluorogenic assay for the measurement of cathepsin B activity (Excitation max: ~360-380 nm; Emission max: ~430-460 nm). Cathepsin B is a cysteine proteinase which has been associated with increased invasiveness and development of the malignant cell phenotype. Cathepsin B has also been implicated in inflammatory airway disease.
Size	1 kit/96 Tests
Usage	The Calbiochem Cathepsin B Activity Assay Kit, Fluorogenic is designed to measure cathepsin B activity in tissues extracts and cell lysates, and for screening cathepsin B inhibitors. Note: Following initial use the control Cathepsin B should be dispensed into aliquots and stored at -20°C. Avoid freeze/thaw cycles
Storage	Storage: Multiple storage requirements Storage Conditions: Store the unopened components at -20°C and -70°C as indicated on the labels. All kit components, once opened, can be stored under the following conditions: Assay Buffer, Cell Lysis Buffer, 96-Well Plate, and Plate Sealers at Room Temperature Cathepsin B Inhibitor, Reduction Reagent, Cathepsin B Substrate, and Calibration Standard at -20°C Control Cathepsin B (aliquot) at -70°C Protect from Light: Protect from light Avoid freeze/thaw: Avoid freeze/thaw Do not freeze: No
Kit Components	Cathepsin B Substrate: 1 vial, 40 µl of Z-Arg-Arg AMC supplied as a 100-fold concentrated solution in DMSO Control Cathepsin B: 1 vial, 20 µl of affinity purified, native cathepsin B, manufactured by EMD Biosciences Calibration Standard: 1 vial,

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100 μ of 2 mM 7-Amino-4-methylcoumarin (AMC) in DMSO supplied as a 100-fold concentrated solution
Cathepsin B Inhibitor: 1 vial, 40 μ of CA-074 provided as a 10-fold concentrated solution
Reduction Reagent: 1 vial, 80 μ of 1 M cysteine provided as a 250-fold concentrated solution
Assay Buffer: 1 bottle, 20 ml of MES buffer, pH 6.0, containing EDTA.
Cell Lysis Buffer: 1 bottle, 10 ml of CytoBuster Protein Extraction Reagent
96-Well Plate: 1 each
Plate Sealer: 2 each

Detection method	Fluorometric
Compatible Sample Types	Cells and tissues