# Cathepsin B Activity Fluorometric Assay Kit

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

## SPECIFICATION

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| **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 invasivessness 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 TemperatureCathepsin B Inhibitor, Reduction Reagent, Cathepsin B Substrate, and Calibration Standard at -20°CControl Cathepsin B (aliquot) at -70°CProtect from Light: Protect from light Avoid freeze/thaw: Avoid freeze/thaw Do not freeze: No |
| **Kit Components** | Cathepsin B Substrate: 1 vial, 40 µof Z-Arg-Arg AMC supplied as a 100-fold concentrated solution in DMSOControl Cathepsin B: 1 vial, 20 µof affinity purified, native cathepsin B, manufactured by EMD BiosciencesCalibration 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 solutionCathepsin B Inhibitor: 1 vial, 40 µof CA-074 provided as a 10-fold concentrated solutionReduction Reagent: 1 vial, 80 µof 1 M cysteine provided as a 250-fold concentrated solutionAssay Buffer: 1 bottle, 20 ml of MES buffer, pH 6.0, containing EDTA.Cell Lysis Buffer: 1 bottle, 10 ml of CytoBuster Protein Extraction Reagent96-Well Plate: 1 eachPlate Sealer: 2 each |
| **Detection method** | Fluorometric |
| **Compatible Sample Types** | Cells and tissues |

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