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Product Datasheet

Green Fluorescent Cathepsin B Assay BYT-ORB1409900

Article Name	Green Fluorescent Cathepsin B Assay
Biozol Catalog Number	BYT-ORB1409900
Supplier Catalog Number	orb1409900
Alternative Catalog Number	BYT-ORB1409900-100
Manufacturer	Biorbyt
Category	Sonstiges
Product Description	The quenched substrate Rhodamine 110-(RR)2, fluoresces green upon cleavage by active cathepsins, allowing the monitoring of intracellular cathepsin activity in vitro using live whole cells. Analyze using flow cytometry or fluorescence microscopy....
Samples	Cell culture
Application Notes	Application Notes: 1. Prepare samples and controls., 2. Dilute 10X Cellular Assay Buffer 1:10 with diH2O., 3. Reconstitute Calcein AM with 50 µL DMSO to prepare 2 mM stock solution., 4. Dilute 2 mM Calcein AM stock solution 1:5 by adding 200 µL diH2O or PBS, forming a 400 µM stock solution., 5. Stain with Calcein AM at a concentration between 1-10 µM. The ideal staining concentration can vary based on cell line, application, etc., and should be determined by the end user. The recommended sample size is 0.4 mL., 6. Add Calcein AM to each sample and mix gently. For example, to stain a 0.4 mL sized sample with 10 µM Calcein AM, add 10 µL of the 400 µM stock solution., 7. Incubate approximately 1 hour., 8. Analyze with a flow cytometer, fluorescence microscope, or fluorescence plate reader. Calcein AM excites at 494 nm and emits at 520 nm