CREATIVE BIOMART®
Assay Kit

Calcein/PI Cell Viability and Cytotoxicity Assay Kit

Product Information

Product Overview

Calcein is a fluorescent probe for live-cell staining, emitting green fluorescence (Ex 490 nm, Em 515 nm). Compared with similar probes (e.g., BCECF-AM, CFDA), Calcein exhibits extremely low cytotoxicity and does not inhibit cellular functions such as proliferation or lymphocyte chemotaxis. Calcein is commonly used in combination with dead-cell probes such as propidium iodide (PI). PI cannot penetrate intact cell membranes and stains only dead cells by intercalating into nuclear DNA, emitting red fluorescence (Ex 535 nm, Em 617 nm). Both Calcein and PI–DNA can be excited at 490 nm for simultaneous visualization of live and dead cells, whereas excitation at 545 nm selectively visualizes dead cells.

Size

500t

Storage

Store at -20 °C, protected from light. Shelf life: 1 year.

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