

Lyso-Tracker Green

Introduction

Lyso-Tracker Green is a green-fluorescent probe that selectively labels Lysosomes of live cells. Lyso-Tracker Green consists of a fluorophore linked to a weak base that selectively tracks intracellular acidic organelles (for example, Lysosomes) of live cells. Unlike non-specific neutral red and acridine orange, Lyso-Tracker Green is highly selective for Lysosomes at nanomolar concentrations. Lyso-Tracker Green stains live cells well but is not suitable for fixed cells. This reagent is provided as a 1 mM solution in DMSO.

Components and Storage

Components	B8815-50 μ L
Lyso-Tracker Green	50 μ L (1 mM)
This product should be stored at -20°C away from light and moisture. Avoid repeated freeze/thaw cycles, stable for 6 months.	

Properties

Physical Appearance	Liquid
M.Wt	398.7
Formula	$C_{18}H_{26}BClF_2N_4O$
Ex/Em	504/511
Synonyms	Lyso-Tracker Green DND-26

Protocol

- Preparation of the working solution:** Dilute appropriate Lyso-Tracker Green (1 mM) in a suitable buffer (for example, HBSS with Calcium and Magnesium) or growth medium to make a working solution. The recommended concentration of the working solution is 50-75 nM. To reduce potential labeling artifacts, keep the concentration of working solution as low as possible. It is suggested to dilute Lyso-Tracker Green when using it.

***Note:** Allow Lyso-Tracker Green to warm to room temperature before using and centrifuge for several seconds to make the probe liquid at the bottom of the tube. The optimal concentration of working solution varies depending on the type of cells.

- Labeling of Lysosomes:** For adherent cells, grow cells to reach the desired density. Remove the growth

medium and add a pre-warmed working solution to cover the cells. Incubate at 37°C away from light for 30-120 min. Replace the working solution with a fresh medium. Then detect the fluorescence signal of cells by a microscope with a FITC filter set.

***Note:** The optimal time for incubation varies depending on the type of cells. For suspension cells, harvest cells and perform similarly to the adherent cells.

Note

1. Fluorescent probes are easy to quench, please protect them from light when using.
2. For your safety and health, please wear lab coats and gloves during the experiment.
3. For research use only. Not to be used in clinical diagnostic or clinical trials.

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