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Lyso Green Kit

1 Components

Component	HY-KD1027-50T	
Lyso Green	1 mM × 50 μL	
Buffer A	200 μM × 50 μL	

2 Introduction

Lyso Green is a fluorescent probe with green fluorescence for specific labeling of lysosomes in living mammalian cells, with strong water solubility and pH stability; it has a maximum excitation wavelength of 490 nm and a maximum emission wavelength of 517 nm. The MCE Lyso Green kit enables the specific labeling of lysosomes in living cells with good labeling and anti-bleaching ability.

3 Characteristics

Maximum excitation wavelength: 490 nm Maximum emission wavelength: 517 nm

Color: green

Subcellular structural localization: lysosome

4 Self-contained reagents

- 1. Serum-free cell culture medium
- 2. PBS buffer

5 Protocol

Preparation of Lyso Green working solution

1. The working concentrations of Lyso Green and Buffer are as follows:

Component	Working Concentration		
Lyso Green	5-10 μΜ		
Buffer A	1-2 μΜ		

Note: The probes have been tested on a variety of cell lines such as U-2 OS, COS-7, Hela, etc. However, the optimal working concentration of Buffer is optimized for the U-2 OS cell line, and users can adjust the Buffer dosage according to their own situation when using different cells.

2. Serum-free cell culture medium is required for the preparation of the working solution. For 24- and 48-well plates, the amount of Lyso Green working solution per well is 200 μ L and 100 μ L, respectively; for 15 mm and 20 mm confocal imaging dishes, the amount of Lyso Green working solution is 100 μ L and 200 μ L, respectively. The following table can be used to prepare Lyso Green working solution.

Working Solution	Lyso Green	Buffer A	Serum-free medium
100 μL	1 μL	1 μL	98 μL
200 μL	2 μL	2 μL	196 μL

Note: The working solution should cover the cells completely when staining, and the amount of working solution can be adjusted proportionally according to the specific situation.

Lyso Green Incubation Procedure

- 1. Prepare the cells.
- 2. Prepare the working solution for incubation.
- 3. Wash the cells growing in the well plate or confocal dish with appropriate amount of PBS, and then take appropriate amount of serum-free medium to rinse the cell surface once.
- 4. Add the working solution and incubate the cells with the working solution for 1 h.
- 5. Take the appropriate amount of PBS and wash 3 times, add the appropriate amount of serum-free medium and leave for 15 min.
- 6. Take appropriate amount of PBS and wash 3 times, replace with serum cell culture medium and leave for 15 min.
- 7. Imaging.

6 Storage

-20°C, 1 year

Keep away from light

7 Precautions

- 1. In order to ensure cell activity and labeling effect, the cell confluence should reach 70%-90% before incubation.
- 2. The optimal incubation environment for the probe is 37°C, 5% CO2 cell culture incubator.
- 3. Fluorescent dyes are subject to fluorescence quenching, so please image as soon as possible after incubation and rinsing.
- 4. This product is limited to scientific research by professionals and should not be used for clinical diagnosis or treatment, food or medicine.
- 5. For your safety and health, please wear lab coat and disposable gloves.

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