

# Lyso-Tracker Green

Cat. No. PO-014

Lot. No. (See product label)



## Product Name

Lyso-Tracker Green

## Product Overview

Lyso-Tracker Green is used for fluorescence imaging of the lysosome.

## Molecular Mass

398.7

## Usage

Lysosomal fluorescent probe

## Introduction

Lyso-Tracker Green is a lysosome green fluorescent probe that penetrates the cell membrane and can be used for lysosome-specific fluorescent staining of living cells.

## Handling

A small amount of Lyso-Tracker Green is added to the cell culture or appropriate solution (e.g., HBSS with calcium and magnesium ions) at a ratio of 1: 13,333-1:20,000 to give a final concentration of 50-75 nM. e.g., 1  $\mu$ L of Lyso-Tracker Green is added to 20 mL or 13.33 mL of cell culture or appropriate solution (e.g., HBSS with calcium and magnesium ions). Add 1  $\mu$ L of Lyso-Tracker Green to 20 mL or 13.33 mL of cell culture medium or an appropriate solution (e.g., HBSS containing calcium and magnesium ions). Mix well to create a Lyso-Tracker Green working solution.

## Assay Protocol

Fluorescent labeling of lysosomes.

1. Remove the cell culture medium, add the Lyso-Tracker Green staining working solution prepared in step 1 and pre-warmed at 37°C and incubate with the cells for 5-60 minutes at 37°C.
2. The Lyso-Tracker Green staining working solution is removed and fresh cell culture medium is added.
3. The cells are then observed, usually with a fluorescent microscope or laser confocal microscope. At this point, a bright, strongly fluorescent staining of the lysosomes can be observed. If the staining is not satisfactory, the concentration of Lyso-Tracker Green in the Lyso-Tracker Green staining solution can be increased or the staining time can be extended within the recommended time frame.

## Category

Plant Organelle Fluorescent Probes

## Excitation/Emission (nm)

504/511

## Molecular Formula

$C_{18}H_{26}BClF_2N_4O$

## Notice

Fluorescent dyes are subject to quenching and should be protected from light to slow down the quenching of fluorescence.

## Storage

Store at -20°C away from light, valid for 6 months.

**FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY**