

Product Name: CM-DiI Membrane Probe
(Orange-Red)
Catalog Number: RA20007

Basic Information

Product Name	CM-DiI Membrane Probe (Orange-Red)
Size	20 µg, 1 mg
Storage	-20 °C, protected from light
Shipping	Shipped with ice pack
Validity	12 months

Reagent preparation

Staining solution preparation

(1) Prepare DMSO or DMF stock solution: Prepare the stock solution in DMSO or DMF to a concentration of 1 mM .

Note: Store unused stock solution in aliquots at -20°C to avoid repeated freezing and thawing.

(2) Preparation of working solution: Dilute the stock solution with a suitable buffer (e.g. serum-free culture medium, HBSS or PBS) to prepare a working solution with a concentration of 1-5 µM.

Note: The final concentration of the working solution is recommended to be optimized according to different cell lines and experimental systems. It is recommended to start exploring the optimal concentration within 10 times the recommended concentration.

Experimental procedures

Incubate the cells with the working solution at 37°C for 60 min. After labeling, wash the cells with PBS and resuspend them in fresh culture medium. For adherent cells, labeling during adherent culture will increase cell viability compared to labeling after digestion into suspension.

The following steps are optional:

Cell Tracker CM- DiI staining is compatible with subsequent fixation and permeabilization.

(1) Fixation: Use 3.7% paraformaldehyde (dissolved in PBS) at room temperature for 10 min. Wash twice with PBS at room temperature, 5 min each time.

(2) Permeabilization. Permeabilize with acetone at -20°C for 10 min. Wash twice with PBS at room temperature, 5 min each time.

CM-DiI excitation/emission wavelength: 549/565nm

Note: This reagent is for scientific research use only!