

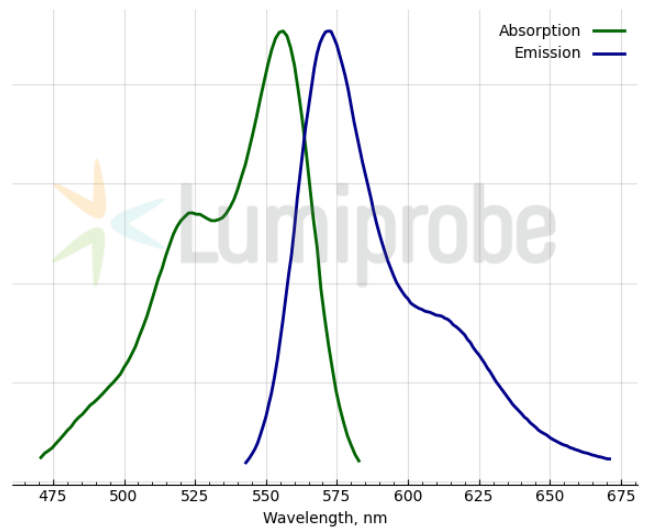
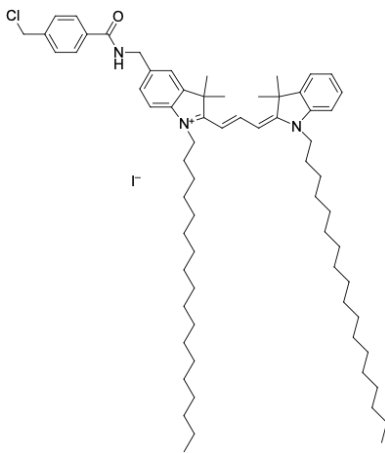
CM-Dil, lipophilic tracer

<http://cn.lumiprobe.com/p/celltracker-cm-di-i-tracer>

CM-Dil is an orange-red fluorescent carbocyanine dye containing thiol-reactive chloromethyl (CM) moiety. CM-Dil labels plasma membranes by inserting its two long hydrocarbon (C18 carbon) chains into the lipid bilayer. The dye is weakly fluorescent until incorporated into membranes.

CM-Dil is used for *in vivo* and *in vitro* labeling of cells to analyze their proliferation as well as for cell tracking and motility assays. The dye is transferred to daughter cells and does not leak to adjacent cells in a population. CM-Dil staining displays bright fluorescence for at least 72 hours (around three to six cell generations). The dye shows little cytotoxicity inside the cell, with minimal effects on the proliferative ability or biology of the cell.

Unlike other membrane dyes, CM-Dil has increased water solubility and can be fixed using traditional aldehyde fixatives. CM-Dil also persists in cells after permeabilization procedures. These make it feasible to detect labeled cells in combination with other histological techniques such as immunocytochemistry, optical clearing, etc.



外观:

分子 1142.96

量:

CAS 180854-97-1

编号:

分子 $C_{68}H_{105}ClIN_3O$

式:

溶解

度:

质量

控制:

储存

条件:

法律 本产品仅供研究目的提供和销售。本产品并未经过食品、药品、医疗器械、化妆品等领域的安全性和效力测试，且未经明示或暗示授权用于其他任何用途，包括但不限于体外诊断、人类或动物用途，以及商业用途。

激发/ 556

吸收

极大

值,

纳米:

ϵ , 摩

尔吸

光系

数 σ^2

发射 571

极大

值,

纳米:

荧光 0.16

量子

产率: