

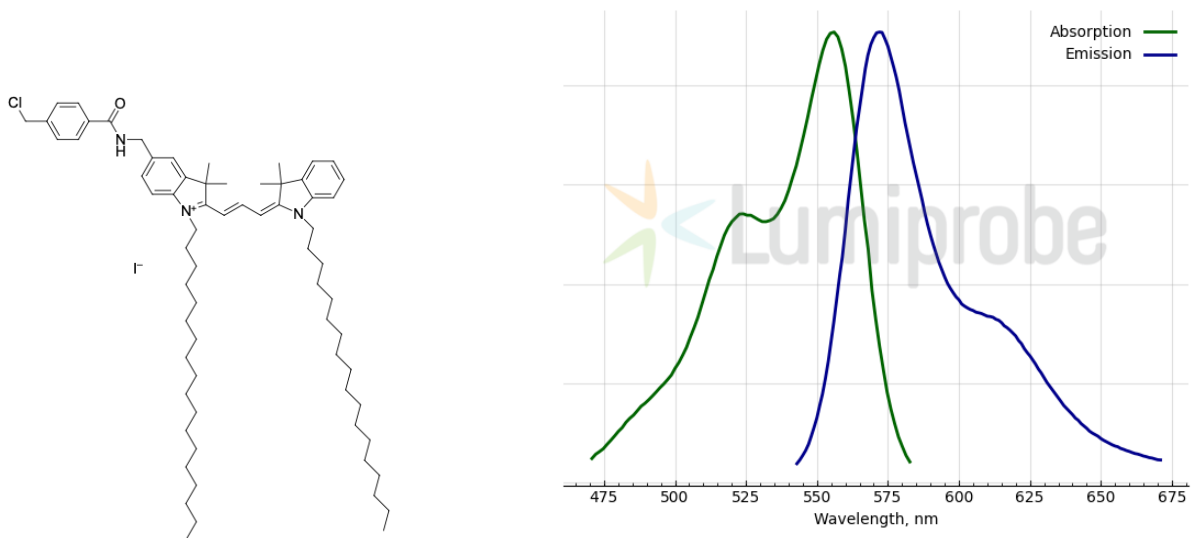
CM-Dil, lipophilic tracer

<http://hk.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:

分子量: 1142.96

CAS 编号: 180854-97-1

分子式: $C_{68}H_{105}ClIN_3O$

溶解度:

质量控制:

储存条件:

法律声明:

激发/吸收极大值, 纳米: 556

ϵ , 摩尔吸光系数, cm^{-1} : 129500

发射极大值, 纳米: 571

荧光量子产率: 0.16