

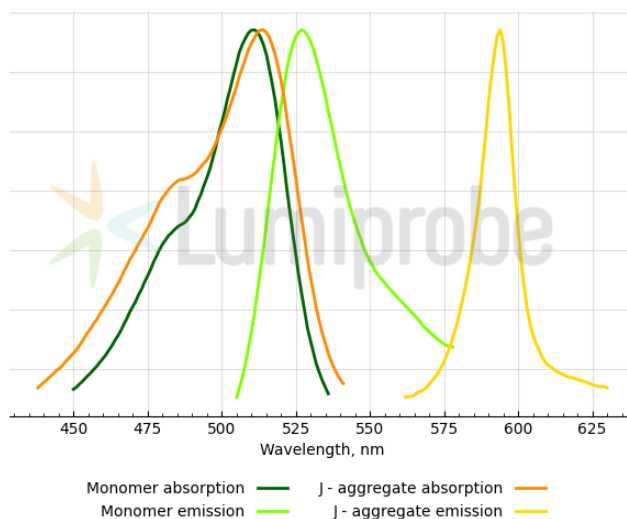
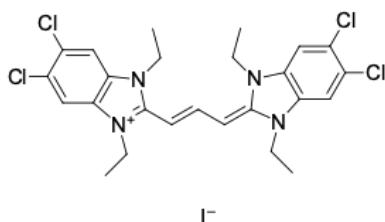
LumiTracker® Mito JC-1

<http://cn.lumiprobe.com/p/jc-1-mitochondrial-membrane-potential-probe>

JC-1 is a cationic carbocyanine dye that accumulates in the mitochondria of live cells in a potential-dependent manner.

The dye exists as a green-fluorescent monomer at depolarized membranes and low concentrations. At higher concentrations (aqueous solutions above 0.1 μM) and hyperpolarized membranes, the dye forms J-aggregates that exhibit an emission at the orange channel. The J-aggregates can be excited at 535 nm, and the monomeric form and aggregate together — at 475 nm.

Healthy cells have high mitochondrial membrane potential, and the decrease of mitochondrial membrane potential is a marker of the early stage of apoptosis. All this allows the use of changes in the orange/green fluorescence ratio of JC-1 to determine healthy vs. depolarized mitochondria. The orange/green fluorescence ratio of JC-1 depends only on the mitochondrial membrane potential and not on other factors such as the size, shape, and density of mitochondria.



外观:

分子量: 652.24

量:

CAS 47729-63-5; 3520-43-2

编号:

分子式: $\text{C}_{25}\text{H}_{27}\text{Cl}_4\text{IN}_4$

式:

IUPAC 1H-Benzimidazolium, 5,6-dichloro-2-[3-(5,6-dichloro-1,3-diethyl-1,3-dihydro-2H-benzimidazol-2-ylidene)-1-propen-1-yl]-1,3-diethyl-, iodide

名称:

溶解

度:

质量

控制:

储存

条件:

法律声明: 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。