

Lumiprobe Corporation

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LUCS® 5, far-red fluorescent nucleic acid stain

http://cn.lumiprobe.com/p/lucs5-nucleic-acid-stain-drag5

LUCS[®] 5 (1,5-bis{[2-(di-methylamino) ethyl]amino}-4,8-dihydroxyanthracene-9,10-dione, DRAQ5[®]) is a cell-permeant far-red fluorescent DNA dye for live and fixed cell imaging and analysis.

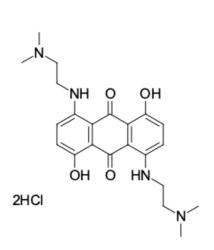
LUCS® 5 readily permeates the cell membranes and intercalates between A-T bases of double-strained DNA (dsDNA). The dye has a high affinity to dsDNA and shows negligible binding to RNA and mtDNA. LUCS® 5 does not exhibit a fluorescence enhancement on DNA binding; thus, the measured fluorescence is proportional and stoichiometric to the quantity of nuclear DNA content of the cell.

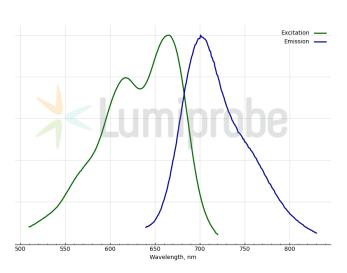
Due to its cell permeability, LUCS® 5 is useful for assessing DNA content and cell cycle but is not suitable for use as a viability dye. As with other cell-permeant DNA intercalating dyes, LUCS® 5 may inhibit cell division in long-term assays, so this effect should be tested before the experiment.

In microscopy and high-content screening, LUCS® 5 is useful as a nuclear counterstain for both live and fixed specimens. In flow cytometry, LUCS® 5 allows direct blood and bone marrow cell discrimination without preliminary red blood cell lysis, fixation, permeabilization, or RNase treatment.

LUCS[®] 5 has absorbance peaks at 617 nm and 665 nm and an emission peak at 701 nm (when intercalated into dsDNA). Thus, this dye is spectrally compatible with the most common labels, such as GFP, FITC, R-PE, or RFP. LUCS[®] 5 also has high photostability and demonstrates no photobleaching effect during imaging.

LUCS® 5 solution should be stored at 2-8 °C. Do NOT freeze the solution! LUCS® 5 may precipitate out of the solution when frozen. Re-dissolving it may not be easy.





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外观: 蓝紫色溶液
    485.41
CAS
    252903-95-0
编号:
分子
    C22H30Cl2N4O4
式:
IUPAC 1,5-bis{[2-(di-methylamino) ethyl]amino}-4, 8-dihydroxyanthracene-9,10-dione
名称:
溶解
    水、二甲基亚砜
质量
    NMR <sup>1</sup>H 和 HPLC-MS (95+%)
控制:
    储存温度为 +2°C 至 +8°C。请勿冷冻!运输:室温下最多可保存 3 周。
储存
条件:
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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 声明: 断、人类或动物用途,以及商业用途。。 激发/ 665 (complex) 吸收 极大 值, 纳米: 发射 701 (complex) 板大 值, 纳米:

DRAQ5™ 是 BioStatus Ltd. 的注册商标。