

BCECF AM, green fluorescent pH indicator

<http://cn.lumiprobe.com/p/bcecf-am>

BCECF AM (2',7'-bis-(2-carboxyethyl)-5-(and-6)-carboxyfluorescein acetoxymethyl ester) is a cell-permeant, dual-excitation ratiometric fluorescent indicator for measuring changes in the intracellular pH.

Cytosolic esterases hydrolyze BCECF AM to yield BCECF, a polar fluorescein derivative held by cells. BCECF is stable in the cells and has an efflux half-life of over two hours. Intracellular pH is estimated by determining the pH-dependent ratio of emission intensity at 535 nm when the dye is excited at 490 nm vs. the emission intensity when excited at 440 nm. This approach can be carried out using spectrofluorometry or flow cytometry methods.

BCECF AM can also be used to investigate intracellular changes in other ions, including potassium.

外观: 白色粉末

分子量: 1112.96

量:

CAS 编号: 117464-70-7

编号:

分子式: $C_{60}H_{40}O_{22}$

式:

IUPAC 名称: 3',6'-bis[(acetyloxy)methoxy]-5-(or 6)-[[[(acetyloxy)methoxy]carbonyl]-3-oxo-spiro[isobenzofuran-1(3H),9'-[9H]xanthene]-2',7'-dipropanoic acid, 2',7'-bis[(acetyloxy)methyl] ester.

溶解度: DMSO, 乙酸乙酯, 甲苯, 乙腈

度:

质量控制: NMR 1H 和HPLC-MS (95+%)

控制:

储存条件: 接收后24个月在黑暗中-20°C。运输: 在室温下最多3周。干燥。

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。