

BCECF AM, green fluorescent pH indicator

<http://hk.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

CAS 编号: 117464-70-7

分子式: $C_{60}H_{40}O_{22}$

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

质量控制: NMR 1H 和HPLC-MS (95+%)

储存条件: 接收後24個月在黑暗中-20°C。運輸: 在室溫下最多3週。乾燥。

法律声明: 本產品僅供研究目的提供和銷售。本產品並未經過食品、藥品、醫療器械、化妝品等領域的安全性和效力測試, 且未經明示或暗示授權用於其他任何用途, 包括但不限於體外診斷、人類或動物用途, 以及商業用途。