

BDP® FL C12

<http://hk.lumiprobe.com/p/bdp-fl-c12>

BDP® FL C12 is a green fluorescent analog of lauric acid designed for studying lipid metabolism in living cells. The spectral properties ($\lambda_{\text{Ex}}/\lambda_{\text{Em}} \approx 503/512 \text{ nm}$) are compatible with standard FITC/GFP filter sets. Unlike many other fluorophores (e.g., pyrene, DPH, or NBD), BDP® FL C12 remains fluorescent in both aqueous and lipid environments.

Following uptake by cells, BDP® FL C12 is metabolized similarly to natural long-chain fatty acids and becomes incorporated into multiple lipid classes, including triglycerides, phospholipids, and cholesteryl esters. This enables monitoring of fatty acid uptake, lipid droplet and peroxisome formation, lipid trafficking, and metabolic remodeling across a wide range of cell types without use of radioactive tracers^[1,2,3].

[1] PLOS ONE. 2016, 11, 4, e0153522; [2] Nat. Commun. 2024, 15, 1, 4314; [3] Curr. Protoc. 2022, 2, 12, e626.

外观:

分子 418.34

量:

CAS 158757-79-0

编号:

分子 $\text{C}_{23}\text{H}_{33}\text{BF}_2\text{N}_2\text{O}_2$

式:

IUPAC 12-(2,2-difluoro-10,12-dimethyl-1-aza-3-azonia-2-boranuidatricyclo[7.3.0.0.3,7]dodeca-3,5,7,9,11-pentaen-4-yl)dodecanoic

名称: acid

溶解 DMSO、DMF、DCM、乙腈

度:

质量 NMR ^1H and HPLC-MS (95+%)

控制:

储存 收到後, 在-20°C避光條件下可保存24個月。運輸: 室溫最多可保存3週。乾燥保存。

条件:

法律 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
声明: 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。

BDP® 是 Lumiprobe 的商標