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BDP® FL C12

http://cn.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 ($\lambda_{Ex}/\lambda_{Em}$ ≈ 503/512 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:	
分子量:	418.34
CAS 编号:	158757-79-0
分子式:	$C_{23}H_{33}BF_2N_2O_2$
IUPAC 名称:	12-(2,2-difluoro-10,12-dimethyl-1-aza-3-azonia-2-boranuidatricyclo[7.3.0.03,7]dodeca-3,5,7,9,11-pentaen-4-yl)dodecanoic acid
溶解度:	DMSO、DMF、DCM、乙腈
质量控制:	NMR ^{1}H and HPLC-MS (95+%)
储存条件:	收到后，在-20°C避光条件下可保存24个月。运输：室温下最多可保存3周。干燥保存。
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 。