

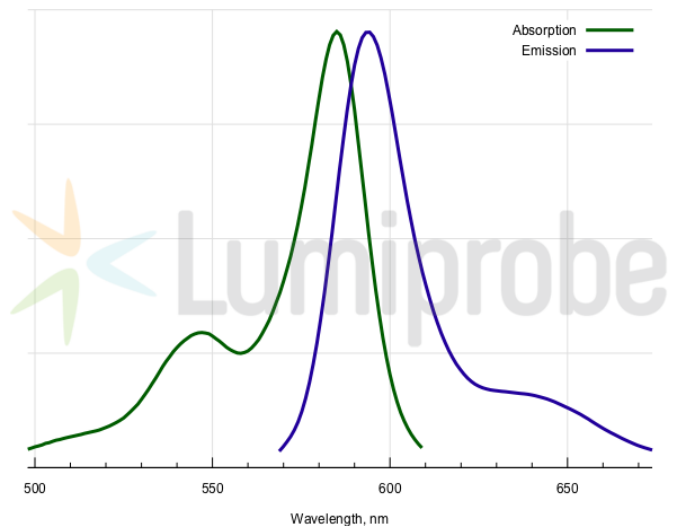
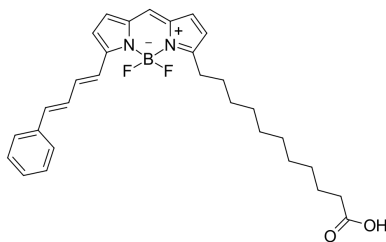
## BDP® 581/591 C11, lipid peroxidation probe

<http://hk.lumiprobe.com/p/bdp-581-591-c11>

BDP® 581/591 C11 is a lipophilic ratiometric probe based on boron dipyrromethene, designed for monitoring oxidative stress in living cells. Thanks to its fatty acid tail (C11), the probe efficiently incorporates into cellular membranes, where it selectively reacts with lipid hydroperoxides and reactive oxygen species.

Oxidation of the dye's polyene chain shifts its fluorescence maximum from the red region of the spectrum (~594 nm) to the green region (~510 nm), enabling quantitative ratiometric analysis independent of probe concentration, excitation light intensity, and staining efficiency.

BDP® 581/591 C11 is suitable for long-term cell imaging and kinetic studies; it can be used to investigate ferroptosis and cell death, analyze oxidative stress induced by UV radiation, toxins, hypoxia, and other factors, screen for antioxidant compounds, and assess membrane integrity in metabolic studies.



外观:

分子 504.43

量:

CAS 217075-36-0

编号:

分子  $C_{30}H_{35}BF_2N_2O_2$

式:

IUPAC 11-[2,2-difluoro-12-[(1E,3E)-4-phenylbuta-1,3-dienyl]-3-aza-1-azonia-2-boranuidatricyclo[7.3.0.0.3,7]dodeca-1(12),4,6,8,10-pentaen-4-yl]undecanoic acid

溶解 DCM、DMSO、DMF、乙酸乙酯

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。

激发/ 585 (reduced form)

吸收

极大

值,

纳米:

发射 594 (reduced form)

极大

值,

纳米: