

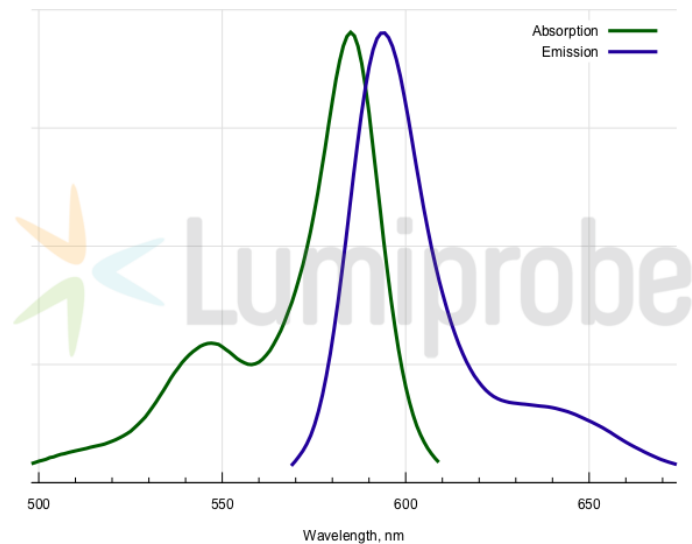
## BDP® 581/591 C11, lipid peroxidation probe

<http://cn.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

名称:

溶解 DCM、DMSO、DMF、乙酸乙酯

度:

质量 NMR  $^1H$  and HPLC-MS (95+%)

控制:

储存 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。

条件:

法律 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  
声明: 断、人类或动物用途, 以及商业用途。

激发/ 585 (reduced form)

吸收

极大

值,

纳米:

发射 594 (reduced form)

极大

值,

纳米:

BDP® 是 Lumiprobe 的商标