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MemBlaze® 488, green fluorescent membrane probe

http://cn.lumiprobe.com/p/memblaze-488

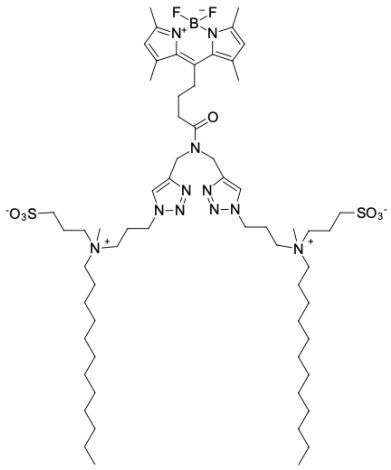
MemBlaze® 488 dye is a bright and photostable green-fluorescent membrane probe, a member of the MEMBRIGHT® family [1], designed for rapid and selective staining of lipid bilayers in live or fixed cells.

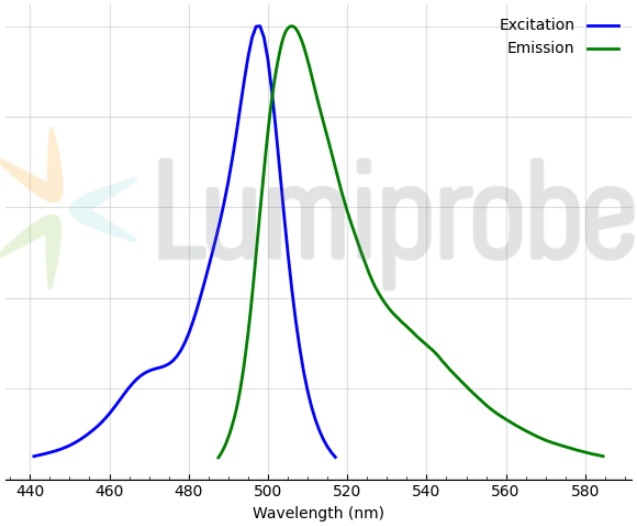
The dye is based on an environment-sensitive fluorophore that is weakly fluorescent in aqueous media but becomes brightly emissive upon insertion into hydrophobic membrane environments. This property enables high signal-to-background ratios without requiring washing steps.

MemBlaze 488 integrates non-covalently into lipid bilayers via two amphiphilic zwitterion moieties and does not require chemical modification of membrane components. Its staining is fast (typically seconds to minutes) and compatible with prolonged live-cell imaging, allowing real-time visualization of membrane dynamics, endocytosis, and vesicular trafficking.

The dye is optimized for standard FITC/GFP filter sets (excitation ~488 nm, emission ~510-530 nm) and can be readily combined with other fluorescent probes for multicolor imaging using confocal, widefield, and super-resolution microscopy applications.

[1] Bioconjugate Chem. 2019, 30, 1, 192–199.





外观:

分子量: 1218.51

分子式: $C_{61}H_{106}BF_2N_{11}O_7S_2$

溶解度:

质量控制:

储存条件:

法律声明: 本产品仅供研究目的的提供和销售。 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 。

激发/吸收极大值，纳米: 498

ε, 摩尔吸光系数, cm^{-1}: 86000

发射极大值，纳米:	506