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MemBlaze® 640, deep-red fluorescent membrane probe

http://cn.lumiprobe.com/p/memblaze-640

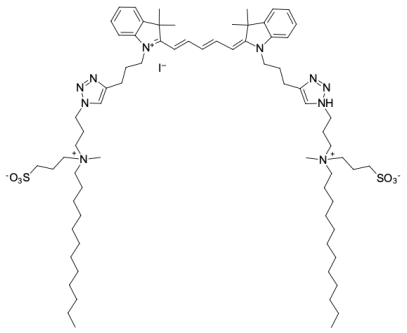
MemBlaze® 640 is a far-red fluorogenic plasma membrane probe, a member of the MEMBRIGHT® [1] family, designed for high-contrast labeling of live and fixed cells. The dye is based on a lipophilic cyanine scaffold bearing amphiphilic membrane-anchoring groups that facilitate rapid, selective insertion into lipid bilayers.

In aqueous media, MemBlaze® 640 forms weakly fluorescent aggregates. Upon interaction with biological membranes, fluorescence is strongly activated, providing bright, uniform plasma membrane staining with exceptionally low background. The fluorogenic mechanism enables wash-free protocols and high signal-to-noise ratios even at nanomolar working concentrations.

MemBlaze® 640 demonstrates minimal internalization under standard staining conditions and preserves membrane integrity. The probe exhibits high photostability and low cytotoxicity, making it suitable for long-term and time-lapse imaging experiments.

The dye is optimized for standard far-red filter sets (excitation ~650 nm, emission ~670-680 nm) and can be readily combined with other fluorescent probes for multicolor imaging using widefield, confocal, spinning disk, TIRF, and super-resolution microscopy.

[1] Cell Chem. Biol. 2019, 26, 4, 600–614.



外观:	
分子量:	1423.86
分子式:	$C_{73}H_{119}IN_{10}O_6S_2$
溶解度:	
质量控制:	NMR ^{1}H和HPLC-MS（95+%）
储存条件:	接收后24个月在黑暗中-20°C。运输：在室温下最多3周。干燥。
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 。
激发/吸收极大值，纳米:	648
发射极大值，纳米:	669