

## MemBlaze® 640, deep-red fluorescent membrane probe

<http://hk.lumiprobe.com/p/memblaze-640>

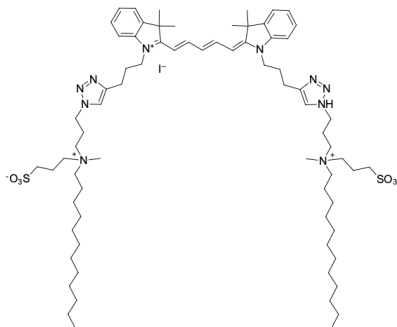
MemBlaze® 640 is a far-red fluorogenic plasma membrane probe, a member of the MEMBRIGHT® [1] family, designed for high-contrast labeling of live and fixed cells. The dye is based on a lipophilic cyanine scaffold bearing amphiphilic membrane-anchoring groups that facilitate rapid, selective insertion 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  $^1H$ 和HPLC-MS (95+%)

储存条件: 接收後24個月在黑暗中-20°C。運輸: 在室溫下最多3週。乾燥。

法律声明: 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/吸收极大值, 纳米: 648

发射极大值, 纳米: 669

MEMBRIGHT® 是 CNRS/UNISTRA 的商標