

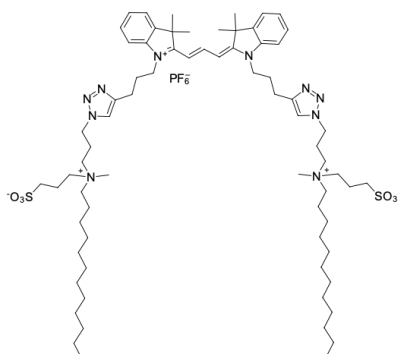
MemBlaze® 560, orange fluorescent membrane probe

<http://www.lumiprobe.com/p/memblaze-560>

MemBlaze® 560 is an orange 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 equipped with amphiphilic anchors that ensure rapid and selective insertion into lipid bilayers. In aqueous media, MemBlaze® 560 forms non-fluorescent aggregates; upon interaction with biological membranes, fluorescence is strongly activated, resulting in bright staining with exceptionally low background.

MemBlaze 560® provides uniform plasma membrane labeling without internalization under standard staining conditions. The probe is suitable for long-term imaging due to its high photostability and low cytotoxicity at working concentrations, and is useful for widefield, confocal, spinning disk, and super-resolution microscopy.

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



Structure of MemBlaze 560

General properties

Appearance:	pink solid
Molecular weight:	1397.82
Molecular formula:	C ₇₁ H ₁₁₇ IN ₁₀ O ₆ S ₂
Solubility:	DMSO, DMF
Quality control:	NMR ¹ H and HPLC-MS (95+%)
Storage conditions:	24 months after receipt at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Desiccate.
Legal statement:	This Product is offered and sold for research purposes only. It has not been tested for safety and efficacy in food, drug, medical device, cosmetic, commercial or any other use. Supply does not express or imply authorization to use for any other purpose, including, without limitation, in vitro diagnostic purposes, in the manufacture of food or pharmaceutical products, in medical devices or in cosmetic products.

Spectral properties

Excitation/absorption maximum, nm:	553
Emission maximum, nm:	567

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