

RAPID DiI, lipophilic tracer

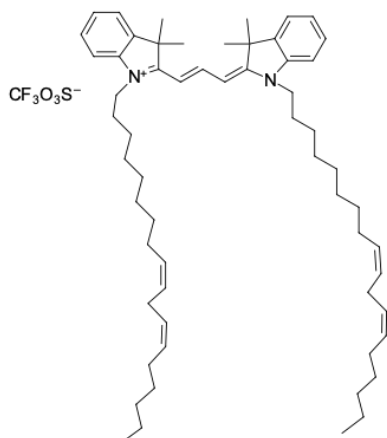
<http://www.lumiprobe.com/p/fast-di-i-lipophilic-tracer>

RAPID DiI (also known as FAST DiI™) is a cyanine dye with orange-red fluorescence, an unsaturated analog of DiI (DiI18(3)).

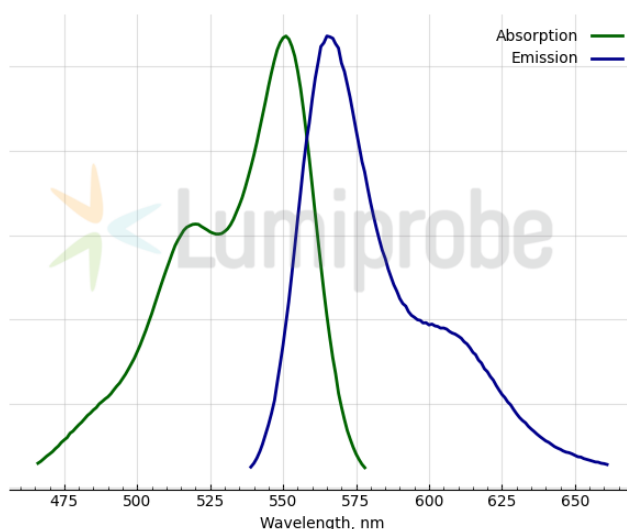
RAPID DiI is a lipophilic dye that labels cell membranes by inserting its two long hydrocarbon (C18 carbon) chains into the lipid bilayer. The dye is weakly fluorescent until incorporated into membranes. RAPID DiI diffuses laterally to stain the entire cell, allowing it to be used as an anterograde and retrograde tracer of neurons. In intact tissue, the dye does not transfer from labeled to unlabeled cells, but some transfer may occur when the membrane is disrupted, for example, after sectioning. RAPID DiI has about 50% faster migration kinetics than DiI.

RAPID DiI can be used with other tracers in dual-color studies, such as DiA and DiO.

RAPID DiI is a solid form for the direct application of crystals to membranes.



Structure of RAPID DiI, lipophilic tracer



Absorption and emission spectra of RAPID DiI

General properties

Appearance:	purple paste
Molecular weight:	975.44
Molecular formula:	C ₆₀ H ₈₉ F ₃ N ₂ O ₃ S
Quality control:	NMR ¹ H and HPLC-MS (90+%)
Storage conditions:	24 months after receipt at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Desiccate.
Legal statement:	Product is offered and sold for research purposes only. Product is not tested for safety and efficacy in food, drug, medical device, cosmetic, no express or implied authorization to use for any other purpose, including, without limitation, in vitro diagnostic purposes, for humans or animals or for commercial purposes.

Spectral properties

Excitation/absorption maximum, nm:	551
Emission maximum, nm:	565

FAST DiI™ is the trademark of Invitrogen™