

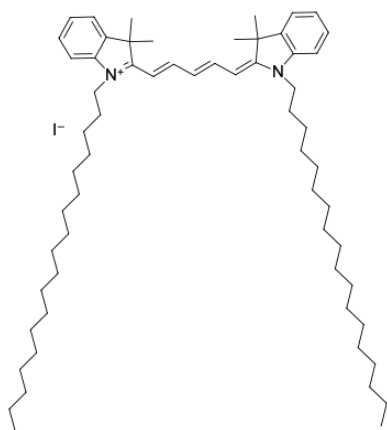
DiD, lipophilic tracer

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

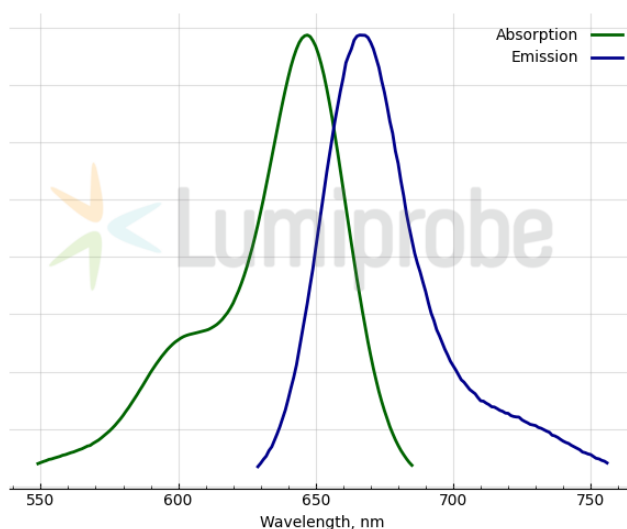
DiD is a far-red fluorescent carbocyanine dye for cell membrane labeling *in vivo* and *in vitro*. DiD diffuses laterally to stain the entire cell, allowing it to be used as an anterograde and retrograde tracer of neurons. In intact tissue, the dye does not transfer from labeled to unlabeled cells, but some transfer may occur when the membrane is disrupted, for example, after sectioning. The dye is weakly fluorescent until incorporated into membranes.

DiD can be used with other tracers in dual-color studies, such as [Dil](#) or [DiO](#).

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



Structure of DiD, lipophilic tracer



Absorption and emission spectra of DiD

General properties

Appearance:	dark blue solid
Molecular weight:	987.38
CAS number:	75539-51-4
Molecular formula:	$C_{61}H_{99}IN_2$
Solubility:	DMSO
Quality control:	NMR 1H and HPLC-MS (95+%)
Storage conditions:	24 months after receipt at $-20^\circ C$ 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:	647
Emission maximum, nm:	666