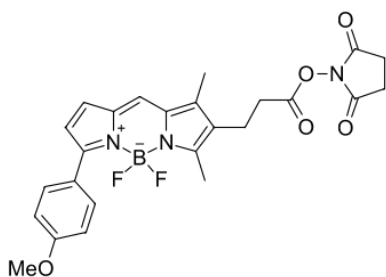


## BDP TMR NHS ester

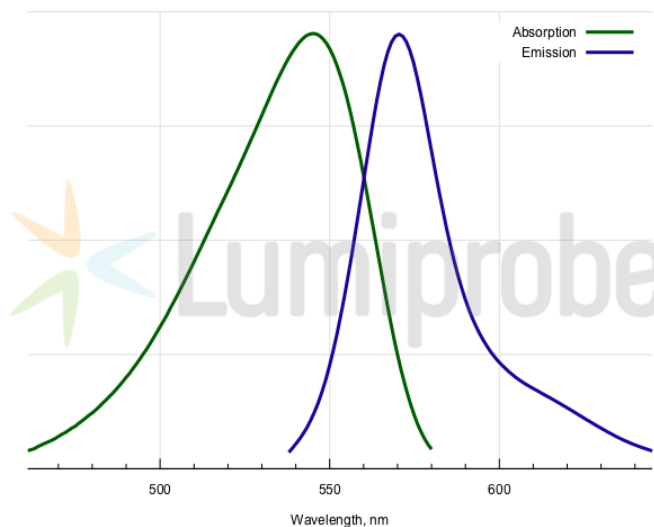
<http://www.lumiprobe.com/p/bodipy-tmr-nhs-ester>

BDP TMR is a borondipyrromethene dye. This is an amine-reactive NHS ester for the labeling of proteins, peptides, and other molecules with amino groups.

BDP TMR is a dye for the TAMRA channel, which is, however, much brighter than TAMRA. Because of the rather long lifetime of the excited state, this fluorophore is a good choice for fluorescence anisotropy measurements, especially with the short linker offered. Fluorescence polarization is an excellent method for high throughput binding assays.



**Structure of BODIPY TMR NHS ester**



**Absorption and emission spectra of BDP TMR**

### General properties

Appearance:	purple solid
Mass spec M+ increment:	380.2
Molecular weight:	495.28
CAS number:	485397-12-4
Molecular formula:	C <sub>25</sub> H <sub>24</sub> BF <sub>2</sub> N <sub>3</sub> O <sub>5</sub>
Solubility:	good in most organic solvents (DMF, DMSO, DCM, acetone, etc.)
Quality control:	NMR <sup>1</sup> H, HPLC-MS (95%)
Storage conditions:	Storage: 12 months after receipt at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Avoid prolonged exposure to light. Desiccate.

### Spectral properties

Excitation/absorption maximum, nm:	542
ε, L·mol <sup>-1</sup> ·cm <sup>-1</sup> :	55000
Emission maximum, nm:	574
Fluorescence quantum yield:	0.64
CF <sub>260</sub> :	0.16
CF <sub>280</sub> :	0.16

BDP® is a trademark of Lumiprobe