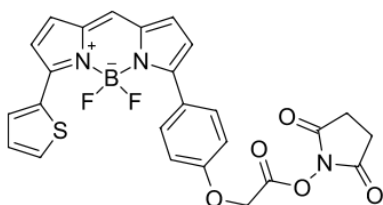


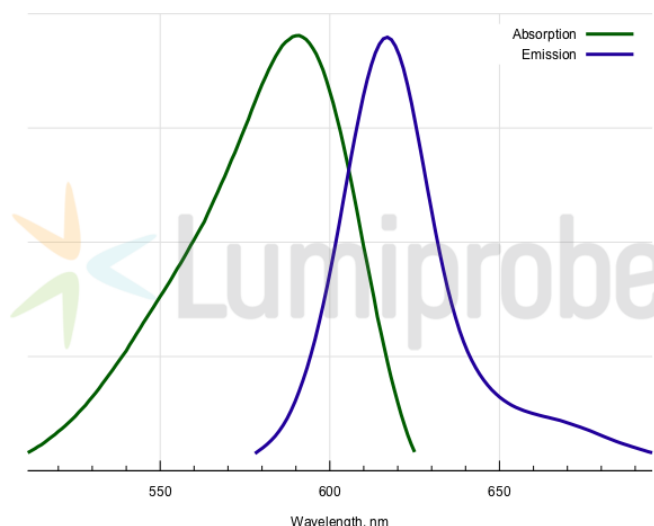
## BDP TR NHS ester

BDP TR is a bright and photostable borondipyrromethene dye, which is especially suitable for microscopy applications. The dye has a long excited state lifetime, and is therefore useful for fluorescence polarization assays. Its large two-photon cross section makes this dye useful for two-photon spectroscopy.

This NHS ester is an amine-reactive form of the dye.



**BDP TR NHS ester structure**



**Absorption and emission spectra of BODIPY TR**

### General properties

|                         |   |
|-------------------------|---|
| Appearance:             | dark blue-black crystals  |
| Mass spec M+ increment: | 406.1   |
| Molecular weight:       | 521.30  |
| CAS number:             | 150152-65-1   |
| Molecular formula:      | C <sub>25</sub> H <sub>18</sub> BF <sub>2</sub> N <sub>3</sub> O <sub>5</sub> S   |
| IUPAC name:             | Methyl {p-[4,4-difluoro-5-(2-thienyl)-3a,4a-diaza-4-bora-s-indacen-3-yl]phenoxy}acetate   |
| Quality control:        | HPLC-MS (95%), UV-Vis   |
| 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. |
| TN VED Code:            | 3204190000  |

### Spectral properties

|  |       |
|--|-------|
| Excitation maximum, nm:                              | 589   |
| $\epsilon$ , L·mol <sup>-1</sup> ·cm <sup>-1</sup> : | 69000 |
| Emission maximum, nm:                                | 616   |
| Fluorescence quantum yield:                          | 0.9   |
| CF <sub>260</sub> :                                  | 0.15  |
| CF <sub>280</sub> :                                  | 0.19  |