

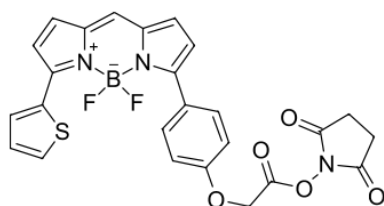
## BDP® TR NHS ester

<http://www.lumiprobe.com/p/bdp-tr-nhs-ester>

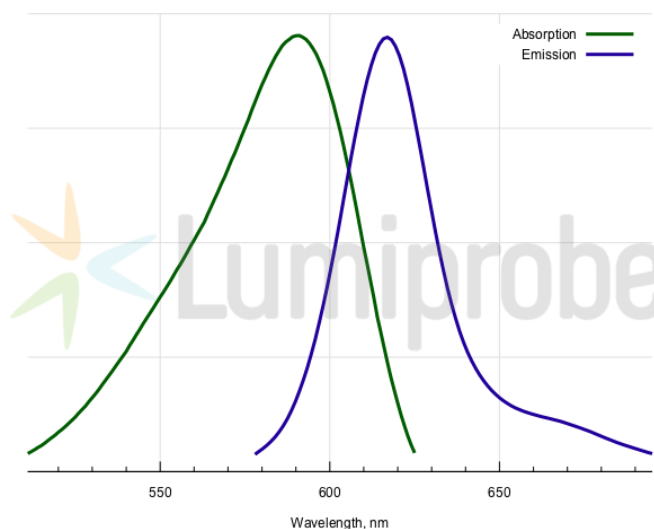
**This product will be discontinued soon in favor of [BDP TR X NHS ester](#). We may still have some material in stock (please see availability above).**

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 BDP 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.  |
| 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:         | 589   |
| ε, 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 |

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