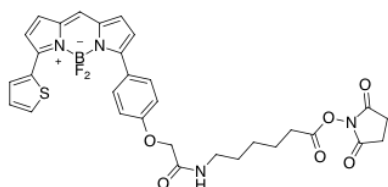


## BDP TR X NHS ester

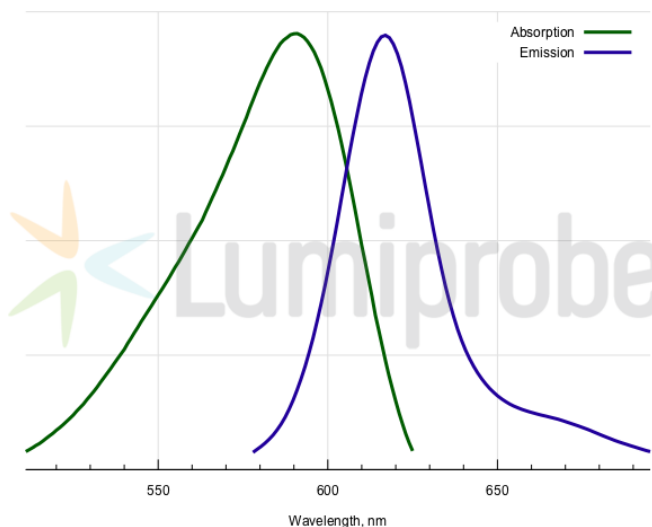
<http://www.lumiprobe.com/p/bodipy-tr-x-nhs-ester>

BDP TR is a borondipyrromethene dye with absorption and emission wavelengths close to ROX dye. The fluorophore is bright, moderately hydrophobic, and has low molecular weight. An extra linker based on aminocaproic acid (C6) provides better separation between the dye and the biomolecule.

The NHS ester function can be used to conjugate with proteins, peptides, and other molecules possessing the amine groups.



Structure of BDP TR X NHS ester



Absorption and emission spectra of BDP TR

### General properties

Appearance:	dark colored solid
Mass spec M+ increment:	519.2
Molecular weight:	634.46
CAS number:	197306-80-2
Molecular formula:	C <sub>31</sub> H <sub>29</sub> N <sub>4</sub> BF <sub>2</sub> O <sub>6</sub> S
Solubility:	good in DMF, DMSO, DCM
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:	589
ε, L·mol <sup>-1</sup> ·cm <sup>-1</sup> :	60000
Emission maximum, nm:	616
Fluorescence quantum yield:	0.9
CF <sub>260</sub> :	0.15
CF <sub>280</sub> :	0.19

BDP® is a trademark of Lumiprobe