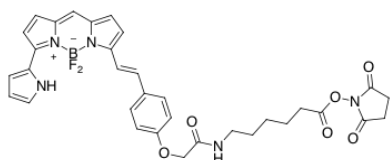


## BDP® 650/665-X-NHS ester

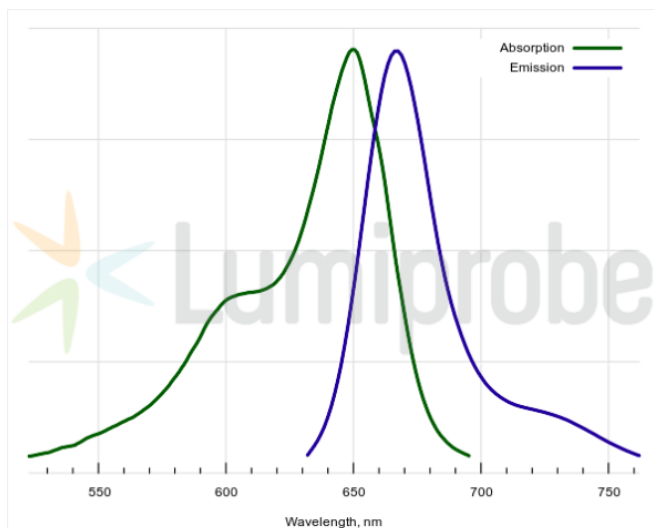
<http://www.lumiprobe.com/p/bdp-650-665-x-nhs-ester>

BDP® 650/665 is a borondipyrromethene dye with far-red excitation and emission. The dye has a good molar extinction coefficient and emission quantum yield.

The NHS ester can be conjugated with amine groups of proteins, peptides, and other molecules. The molecule contains an additional aminohexanoic acid linker.



**Structure of BDP 650/665-X-NHS ester**



**Absorption and emission spectra of BDP 650/665**

### General properties

Appearance:	dark colored solid
Mass spec M+ increment:	528.2
Molecular weight:	643.45
CAS number:	235439-04-0; 1616842-78-4
Molecular formula:	C <sub>33</sub> H <sub>32</sub> N <sub>5</sub> BF <sub>2</sub> O <sub>6</sub>
Solubility:	good in DMF, DMSO, low in water
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.
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:	649
ε, L·mol <sup>-1</sup> ·cm <sup>-1</sup> :	94000
Emission maximum, nm:	667
Fluorescence quantum yield:	0.52
CF <sub>260</sub> :	0.04
CF <sub>280</sub> :	0.04