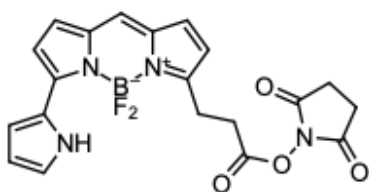


## BDP® 576/589 NHS ester

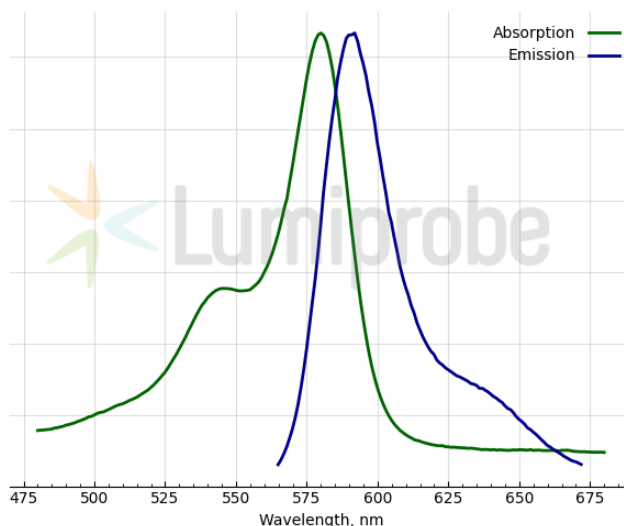
<http://www.lumiprobe.com/p/bdp-576-589-nhs-ester>

BDP 576/589 is a boron dipyrromethene dye. This hydrophobic dye has high quantum yield and long excited-state lifetime (about 5 nanoseconds). It can be used for measuring fluorescence lifetime and fluorescence polarization and in two-photon laser scanning microscopy.

This reagent is an activated N-hydroxysuccinimide ester of the dye with reactivity to primary and secondary amino groups.



**Structure of BDP 576/589 NHS ester**



**BDP 576/589 absorbance and emission spectra**

### General properties

Appearance:	dark colored crystals
Mass spec M+ increment:	328.1
Molecular weight:	426.18
CAS number:	201998-61-0
Molecular formula:	C <sub>20</sub> H <sub>17</sub> N <sub>4</sub> BF <sub>2</sub> O <sub>4</sub>
Solubility:	soluble in polar organic solvents
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:	580
ε, L·mol <sup>-1</sup> ·cm <sup>-1</sup> :	98000
Emission maximum, nm:	592
Fluorescence quantum yield:	0.13
CF <sub>260</sub> :	0.32
CF <sub>280</sub> :	0.35