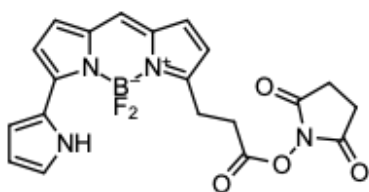


BDP 576/589 NHS ester

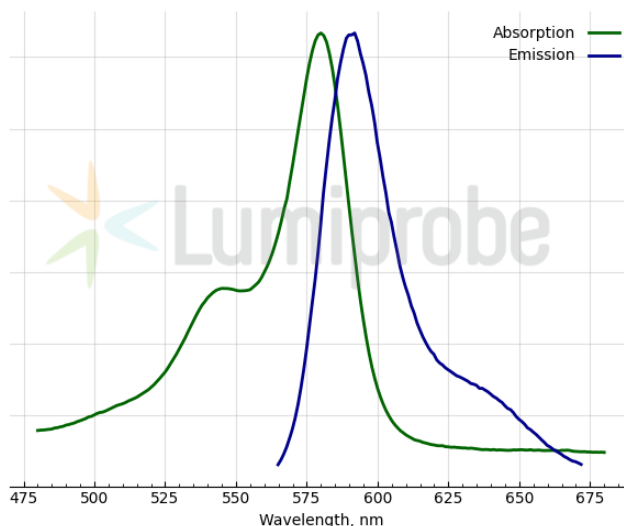
<http://www.lumiprobe.com/p/bdp-576-589-nhs-ester>

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 ₂₀ H ₁₇ N ₄ BF ₂ O ₄
Solubility:	soluble in polar organic solvents
Quality control:	NMR ¹ 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:	580
ε, L·mol ⁻¹ ·cm ⁻¹ :	98000
Emission maximum, nm:	592
Fluorescence quantum yield:	0.13
CF ₂₆₀ :	0.32
CF ₂₈₀ :	0.35

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