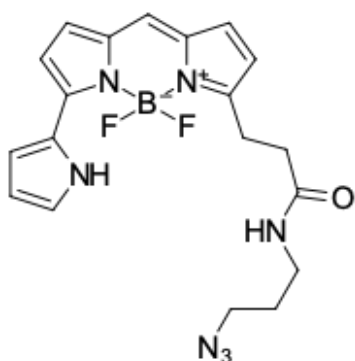


## BDP® 576/589 azide

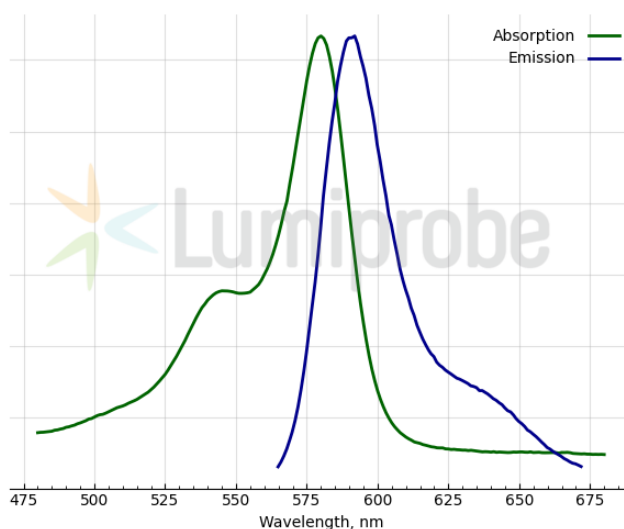
<http://www.lumiprobe.com/p/bdp-576-589-azide>

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.

Azide moiety allows quick and effective labeling and detection of terminal alkynes via a copper-catalyzed click reaction (CuAAC) or of strained cyclooctynes via a copper-free click chemistry reaction (SPAAC). Mild reaction conditions are suitable for most biomolecules, cells, and tissues.



Structure of BDP 576/589 azide



BDP 576/589 absorbance and emission spectra

### General properties

Appearance:	dark brown powder
Molecular weight:	411.23
Molecular formula:	C <sub>19</sub> H <sub>20</sub> BF <sub>2</sub> N <sub>7</sub> O
Solubility:	methylene, DMF, DMSO, acetonitrile
Quality control:	NMR <sup>1</sup> H and HPLC-MS (95+%)
Storage conditions:	24 months after receipt at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Desiccate. Avoid prolonged exposure to light.
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