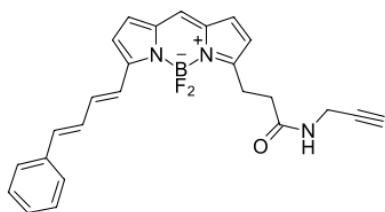


## BDP 581/591 alkyne

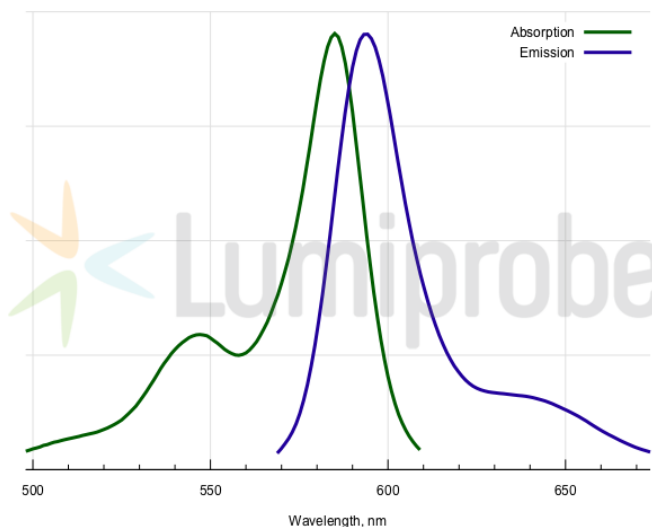
<http://www.lumiprobe.com/p/bodipy-581-591-alkyne>

BDP 581/591 is a borondipyrromethene fluorophore that is moderately hydrophobic. It is useful for fluorescence polarization assays, and microscopy. Due to its significant two photon absorption cross section, the dye is also useful for two photon experiments.

This is a terminal alkyne for copper-catalyzed Click chemistry.



**Structure of BDP 581/591 alkyne**



**Absorption and emission spectra of BDP 581/591**

### General properties

Appearance:	dark colored solid
Mass spec M+ increment:	429.2
Molecular weight:	429.27
Molecular formula:	C <sub>25</sub> H <sub>22</sub> N <sub>3</sub> BF <sub>2</sub> O
Solubility:	good in DCM, DMF, DMSO
Quality control:	NMR <sup>1</sup> H, HPLC-MS (95%)
Storage conditions:	Storage: 24 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:	585
ε, L·mol <sup>-1</sup> ·cm <sup>-1</sup> :	104000
Emission maximum, nm:	594
Fluorescence quantum yield:	0.83
CF <sub>260</sub> :	0.06
CF <sub>280</sub> :	0.04

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