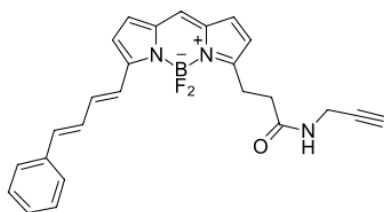


BDP 581/591 alkyne

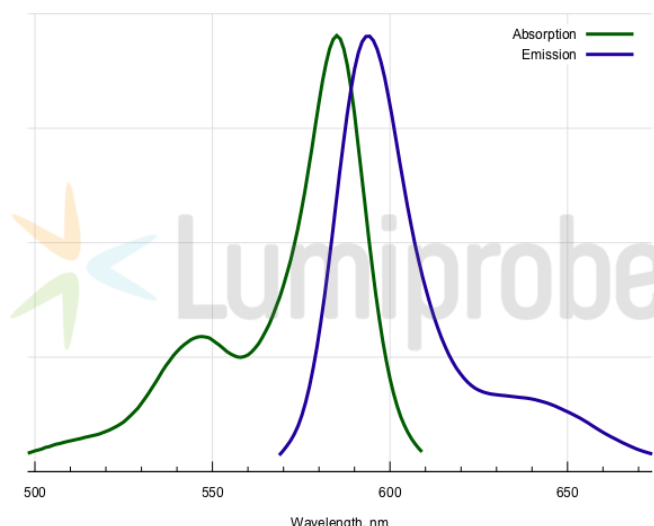
<http://www.lumiprobe.com/p/bdp-581-591-alkyne>

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 ₂₅ H ₂₂ N ₃ BF ₂ O
Solubility:	good in DCM, DMF, DMSO
Quality control:	NMR ¹ 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.
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:	585
ε, L·mol ⁻¹ ·cm ⁻¹ :	104000
Emission maximum, nm:	594
Fluorescence quantum yield:	0.83
CF ₂₆₀ :	0.06
CF ₂₈₀ :	0.04