

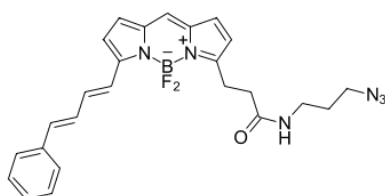
BDP 581/591 azide

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

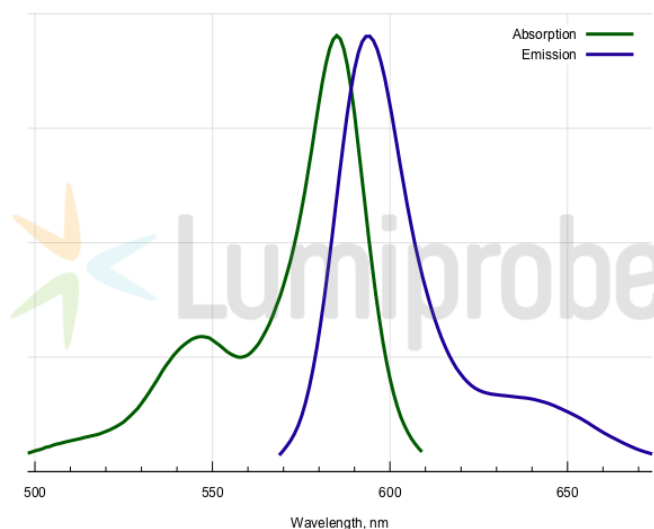
BDP 581/591 is a bright and versatile fluorophore that is relatively hydrophobic. It has a high brightness, significant two photon cross-section, and relatively long fluorescence lifetime.

The dye reacts with reactive oxygen species (ROS) with the change of its fluorescence. It can be therefore used for intracellular monitoring of ROS.

This is an azide derivative that can be used for the conjugation with both small molecules and biomolecules to construct tracers for fluorescence polarization assays and microscopy probes.



Structure of BDP 581/591 azide



Absorption and emission spectra of BDP 581/591

General properties

Appearance:	dark solid
Molecular weight:	474.31
Molecular formula:	C ₂₅ H ₂₅ N ₆ BF ₂ O
Solubility:	good in DCM, alcohols, 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.

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

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