

## **Lumiprobe Corporation**

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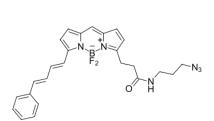
## **BDP® 581/591 azide**

http://www.lumiprobe.com/p/bdp-581-591-azide

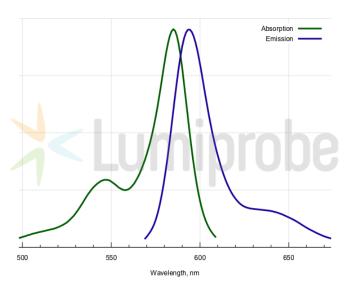
BDP 581/591 is a bright and versatile fluorophore that is relatively hydrophobic. It has a high brightness, significant two photon cross-section, and relatively long fluorescence lifetime.

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:  $C_{25}H_{25}N_6BF_2O$ 

Solubility: good in DCM, alcohols, DMF, DMSO

Quality control: NMR <sup>1</sup>H, HPLC-MS (95%)

Storage conditions: Storage: 24 months after receival 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  $\epsilon$ , L·mol $^{-1}$ ·cm $^{-1}$ : 104000 Emission maximum, nm: 594 Fluorescence quantum yield: 0.83  $CF_{260}$ : 0.06  $CF_{280}$ : 0.04

BDP® is a trademark of Lumiprobe