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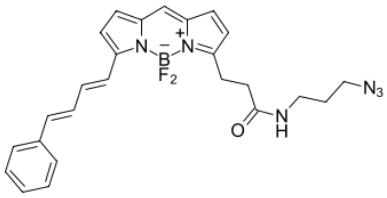
BDP® 581/591 azide

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

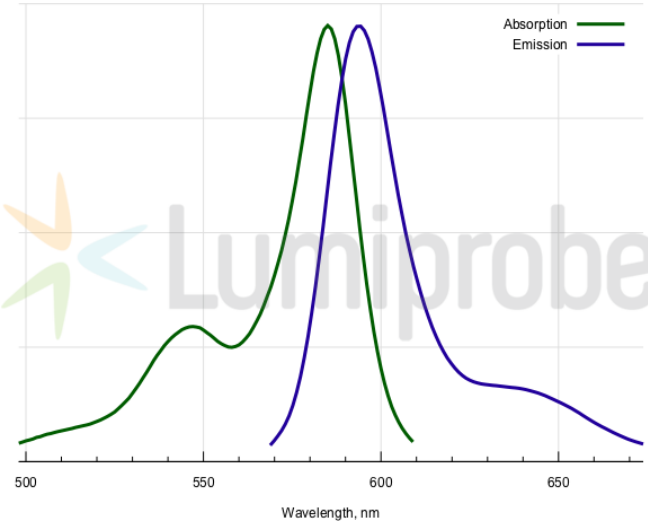
BDP 581/591 is a bright and versatile fluorophore that is relatively hydrophobic. It has a high brightness, significant two photon cross-section, and relatively long fluorescence lifetime.

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 ^1H, 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
ε, $L \cdot mol^{-1} \cdot cm^{-1}$:	104000
Emission maximum, nm:	594
Fluorescence quantum yield:	0.83
CF_{260}:	0.06
CF_{280}:	0.04