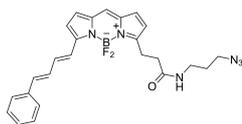


BDP 581/591 azide (A270070)

Specifications:

Name:	BDP 581/591 azide
Description:	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.
Absorption Maxima:	585 nm
Extinction Coefficient:	104000 M ⁻¹ cm ⁻¹
Emission Maxima:	594 nm
Fluorescence Quantum Yield:	0.83
CF ₂₆₀ :	0.06
CF ₂₈₀ :	0.04
Purity:	95% (by 1H NMR and HPLC-MS).
Molecular Formula:	C ₂₅ H ₂₅ N ₆ BF ₂ O
Molecular Weight:	474.31 kDa
Product Form:	Dark solid.
Solubility:	Good in DCM, alcohols, DMF, and DMSO.
Storage:	Shipped at room temperature. Upon delivery, store in the dark at -20°C. Avoid prolonged exposure to light. Desiccate.
Disclaimer:	This product is for research use only. It is not intended for diagnostic or therapeutic use.

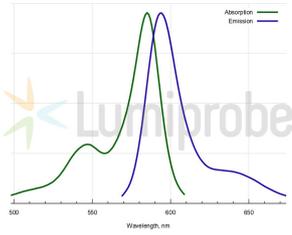
Images:



Structure of BDP 581/591 azide.

BDP 581/591 azide (A270070)

Images continued:



Absorption and emission spectra of BDP 581/591.