

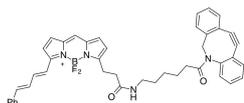
BDP 581/591 DBCO (A270072)

Specifications:

Name:	BDP 581/591 DBCO
Description:	BDP 581/591 is a borondipyrromethene dye with a conjugated olefinic system. It can be used either as a regular fluorophore, or as a probe for the detection of reactive oxygen species (ROS); after oxidation, its fluorescence moves to the green part of the spectrum. This is a version of the dye containing cyclooctyne. The DBCO (azodibenzocyclooctyne) moiety can be conjugated with azides yielding stable triazole conjugates.
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
Mass Spec M+ Shift after Conjugation:	692.3
Purity:	95% (by ¹ H NMR and HPLC-MS).
Molecular Formula:	C ₄₃ H ₃₉ N ₄ BF ₂ O ₂
Molecular Weight:	692.60 kDa
Product Form:	Dark purple solid.
Solubility:	Good in DMF, DMSO, and DCM.
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.

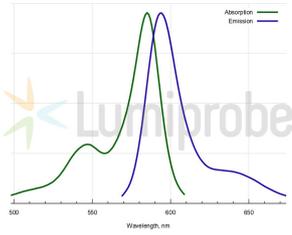
Images:

Structure of BDP 581/591 DBCO.



BDP 581/591 DBCO (A270072)

Images continued:



Absorption and emission spectra of BDP 581/591.