

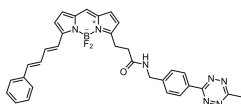
BDP 581/591 tetrazine (A270076)

Specifications:

Name:	BDP 581/591 tetrazine
Description:	BDP 581/591 is a borondipyrromethene dye with red emission. The dye exhibits high emission quantum yield and molar extinction coefficient, relatively long fluorescence lifetime and two-photon cross section. Additionally, it can be used as an intracellular ROS sensor. This tetrazine derivative allows to conjugate the fluorophore with various strained dienophiles like trans-cyclooctenes in a fast reaction called TCO-ligation.
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:	574.2
Purity:	95% (by ¹ H NMR and HPLC-MS).
Molecular Formula:	C ₃₂ H ₂₈ N ₇ BF ₂ O
Molecular Weight:	575.42 kDa
Product Form:	Colorless solid.
Solubility:	Well soluble in DMF, DMSO, dichloromethane, and toluene.
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.

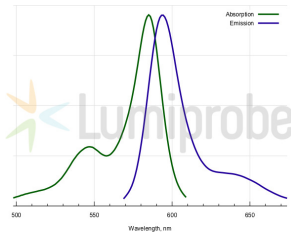
Images:

Structure of BDP 581/591 tetrazine.



BDP 581/591 tetrazine (A270076)

Images continued:



Absorption and emission spectra of BDP 581/591.