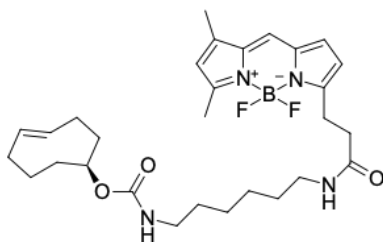


BDP® FL TCO

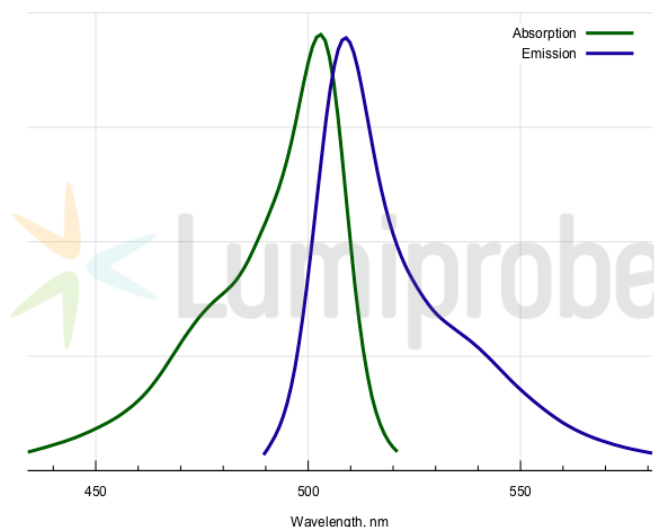
<http://www.lumiprobe.com/p/bdp-fl-tco-axial>

BDP® FL TCO is a green-fluorescent dye functionalized with a trans-cyclooctene (TCO) moiety for rapid and selective bioorthogonal conjugation. This reagent combines the favorable photophysical properties of the BDP® FL fluorophore with the high reactivity of TCO in inverse electron-demand Diels-Alder (IEDDA) reactions with tetrazines.

The BDP® FL core exhibits high molar absorptivity, sharp excitation and emission peaks, and excellent photostability. With excitation and emission maxima typically around 503 nm and 509 nm, respectively, BDP® FL TCO is compatible with common 488 nm laser lines and FITC filter sets, making it suitable for fluorescence microscopy, flow cytometry, and plate-based assays.



Structure of BDP® FL TCO



Absorption and emission spectra of BDP® FL

General properties

Appearance:	orange powder
Molecular weight:	542.48
Molecular formula:	C ₂₉ H ₄₁ BF ₂ N ₄ O ₃
Solubility:	DMSO, DMF, acetonitrile
Quality control:	NMR ¹ H and HPLC-MS (95+%)
Storage conditions:	24 months after receipt at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Desiccate. Avoid prolonged exposure to light.
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:	503
ε, L·mol ⁻¹ ·cm ⁻¹ :	92000
Emission maximum, nm:	509
Fluorescence quantum yield:	0.97
CF ₂₆₀ :	0.015
CF ₂₈₀ :	0.027