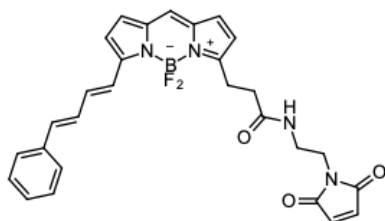


BDP 581/591 maleimide

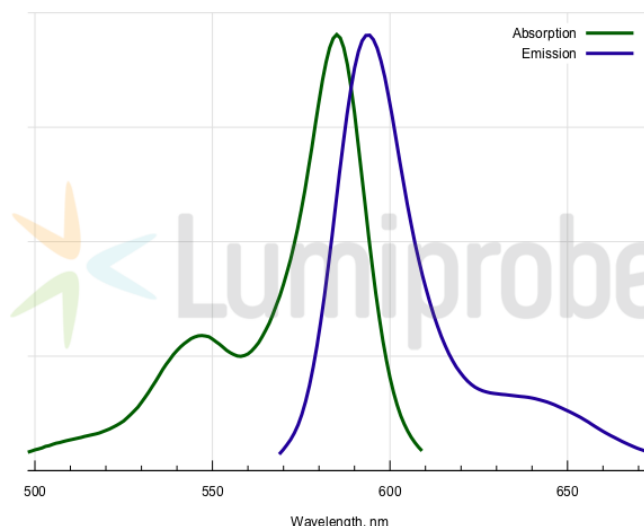
<http://www.lumiprobe.com/p/bodipy-581-591-maleimide>

BDP 581/591 maleimide is a thiol reactive dye for the labeling of sulfhydryl groups of proteins and peptides.

The dye is useful for a variety of applications, such as microscopy, fluorescence polarization experiments, and even ROS detection (upon reaction with ROS, the dye changes its fluorescence).



Structure of BDP 581/591 maleimide



Absorption and emission spectra of BDP 581/591

General properties

Appearance:	dark colored solid
Molecular weight:	514.33
Molecular formula:	C ₂₈ H ₂₅ N ₄ BF ₂ O ₃
Solubility:	good in DMF, DMSO, DCM
Quality control:	NMR ¹ H, HPLC-MS (95%)
Storage conditions:	Storage: 24 months after receipt at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Avoid prolonged exposure to light. Desiccate.

Spectral properties

Excitation/absorption maximum, nm:	585
ε, L·mol ⁻¹ ·cm ⁻¹ :	104000
Emission maximum, nm:	594
Fluorescence quantum yield:	0.83
CF ₂₆₀ :	0.06
CF ₂₈₀ :	0.04

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