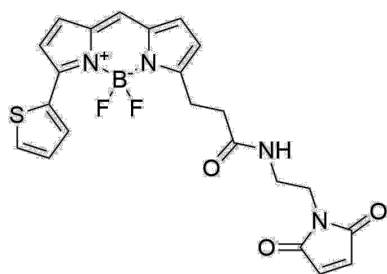


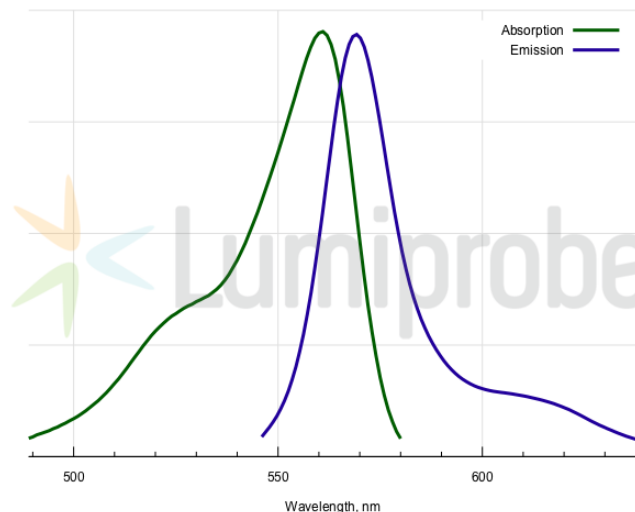
## BDP 558/568 maleimide

<http://www.lumiprobe.com/p/bdp-558-568-maleimide>

BDP 558/568 is a fluorophore with a fluorescence maximum at 569 nm (in the yellow spectrum range). This dye has a low Stokes shift, high quantum yield; it is hydrophobic and relatively non-sensitive to pH changes or solvent polarity. By its spectral characteristics, BDP 558/568 is an analog of such fluorophore as Cy3™. BDP 558/568 maleimide can be used for conjugation with peptides, proteins, antibodies, or other molecules that contain free thiol groups (-SH).



**Structure of BDP 558/568 maleimide**



**Absorption and emission spectra of BDP 558/568**

### General properties

Appearance: dark green powder  
Molecular weight: 468.28  
Molecular formula: C<sub>22</sub>H<sub>19</sub>N<sub>4</sub>BF<sub>2</sub>O<sub>3</sub>S  
IUPAC name: 3-(5,5-difluoro-7-(thiophen-2-yl)-5H-5l4,6l4-dipyrrolo[1,2-c:2',1'-f][1,3,2]diazaborinin-3-yl)-N-(2-(2,5-dioxo-2,5-dihydro-1H-pyrrol-1-yl)ethyl)propanamide  
Solubility: very soluble in DMF, DMSO  
Quality control: NMR <sup>1</sup>H, HPLC-MS (95%)  
Storage conditions: Storage: 12 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: 561  
ε, L·mol<sup>-1</sup>·cm<sup>-1</sup>: 84400  
Emission maximum, nm: 569  
Fluorescence quantum yield: 0.68  
CF<sub>260</sub>: 0.00  
CF<sub>280</sub>: 0.07

BDP® is a trademark of Lumiprobe. Cy™ is a trademark of Cytiva.