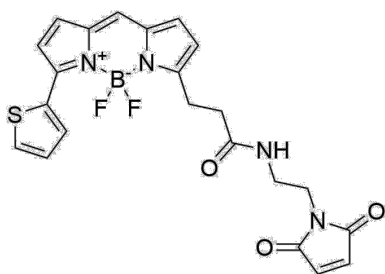


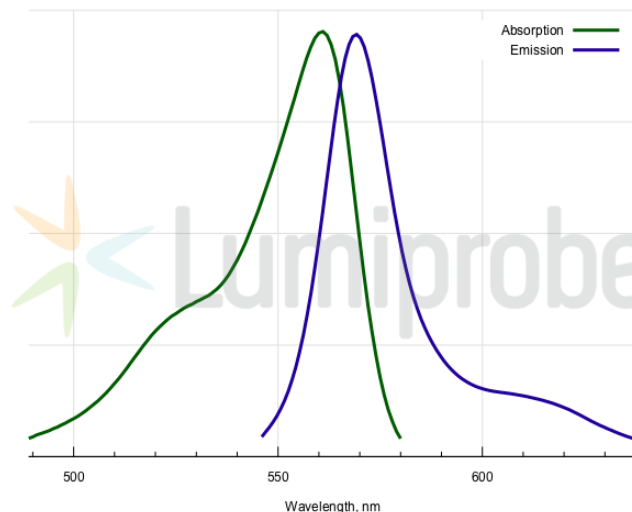
## BDP® 558/568 maleimide

<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-5i4,6i4-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.
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:	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.