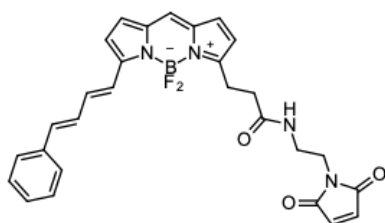


## BDP® 581/591 maleimide

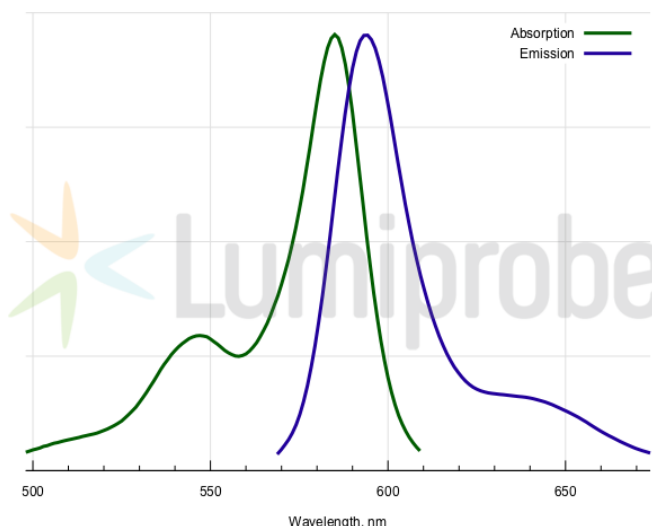
<http://www.lumiprobe.com/p/bdp-581-591-maleimide>

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:  | $C_{28}H_{25}N_4BF_2O_3$   |
| Solubility:         | good in DMF, DMSO, DCM   |
| Quality control:    | NMR $^1H$ , HPLC-MS (95%)  |
| Storage conditions: | Storage: 24 months after receipt at $-20^\circ C$ 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:              | 585    |
| $\epsilon$ , $L \cdot mol^{-1} \cdot cm^{-1}$ : | 104000 |
| Emission maximum, nm:                           | 594    |
| Fluorescence quantum yield:                     | 0.83   |
| $CF_{260}$ :                                    | 0.06   |
| $CF_{280}$ :                                    | 0.04   |

BDP® is a trademark of Lumiprobe