

## **Lumiprobe Corporation**

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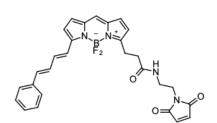
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## BDP® 581/591 maleimide

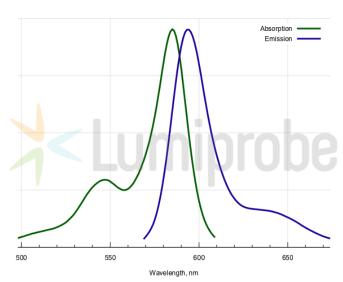
http://www.lumiprobe.com/p/bdp-581-591-maleimide

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

 $\label{eq:controller} \text{Molecular formula:} \qquad \qquad \text{$C_{28}$H$}_{25}\text{$N_4$BF}_2\text{$O_3$}$ 

Solubility: good in DMF, DMSO, DCM

Quality control: NMR <sup>1</sup>H, HPLC-MS (95%)

Storage conditions: Storage: 24 months after receival 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: 585  $\epsilon$ , 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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