

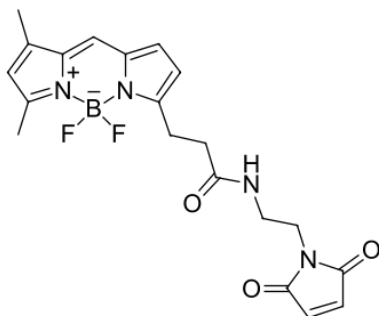
## BDP® FL maleimide

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

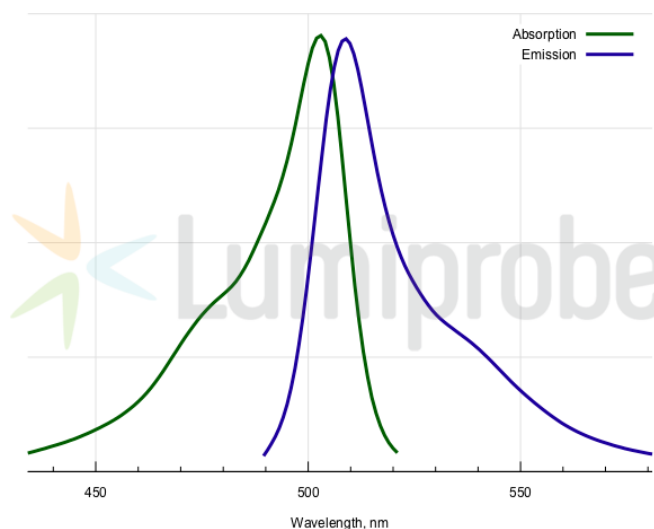
Thiol reactive BDP FL maleimide is a reactive dye for protein labeling.

BDP FL is a borondipyrromethene dye which has absorption and fluorescence spectra similar to fluorescein (FAM). However, this dye exhibits very high photostability. It is non-charged, and has low molecular weight. Its brightness is similar to fluorescein, R110 and xanthene dye derivatives.

This fluorophore is ideal for fluorescent microscopy and many other applications. The fluorophore can substitute fluorescein for almost any application, and it is compatible with any FAM-capable fluorescent instrumentation.



**Structure of BODIPY FL maleimide**



**Absorption and emission spectra of BDP FL**

### General properties

|                         |  |
|-------------------------|--|
| Appearance:             | orange solid   |
| Mass spec M+ increment: | 414.1  |
| Molecular weight:       | 414.21   |
| CAS number:             | 773859-49-7  |
| Molecular formula:      | C <sub>20</sub> H <sub>21</sub> BF <sub>2</sub> N <sub>4</sub> O <sub>3</sub>  |
| Solubility:             | Good in organic solvents (DMF, DMSO), limited in water   |
| Quality control:        | NMR 1H, 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.  |
| 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:                   | 503   |
| $\epsilon$ , L·mol <sup>-1</sup> ·cm <sup>-1</sup> : | 92000 |
| Emission maximum, nm:                                | 509   |
| Fluorescence quantum yield:                          | 0.97  |
| CF <sub>260</sub> :                                  | 0.015 |
| CF <sub>280</sub> :                                  | 0.027 |

