

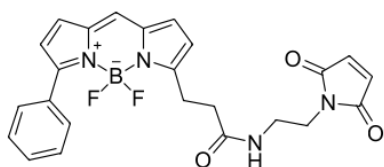
BDP® R6G maleimide

<http://www.lumiprobe.com/p/bdp-r6g-maleimide>

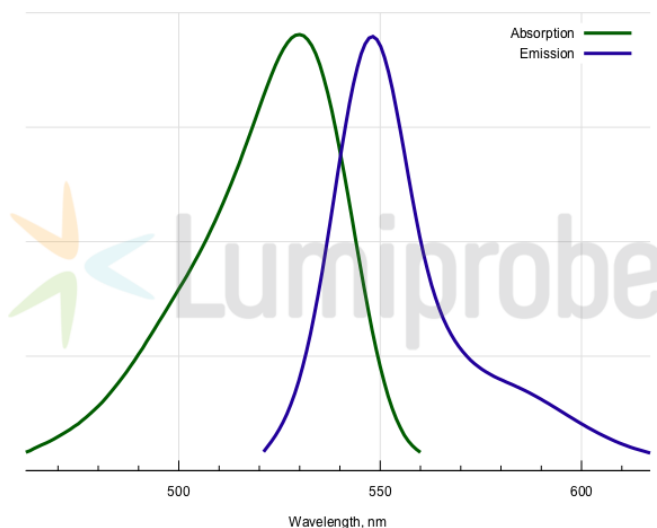
BDP R6G is a borondipyrromethene fluorophore whose absorption and emission spectra match those of rhodamine 6G (R6G) dye.

Thiol labeling is often an option of choice for the modification of proteins. Limited number of cysteine residues in proteins allow for more site-specific labeling than NHS ester labeling of amine groups, which are encountered in large number in many proteins.

This maleimide is a thiol reactive dye. Please refer to our recommended labeling protocol to achieve modification of your protein with this reagent.



Structure of BDP R6G maleimide



Absorption and emission spectra of BDP R6G

General properties

| | |
|-------------------------|--|
| Appearance: | red or brown solid |
| Mass spec M+ increment: | 462.2 |
| Molecular weight: | 462.26 |
| CAS number: | 2183473-32-5 |
| Molecular formula: | C ₂₄ H ₂₁ N ₄ BF ₂ O ₃ |
| IUPAC name: | 1-Phenyl-6-(2-(2-(N-maleimido)ethylaminocarbonyl)ethyl)borondipyrromethene |
| Solubility: | good in DMF, DMSO, DCM |
| Quality control: | NMR ¹ H, 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: | 530 |
| Emission maximum, nm: | 548 |

Fluorescence quantum yield: 0.96

CF₂₆₀: 0.17

CF₂₈₀: 0.18

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