

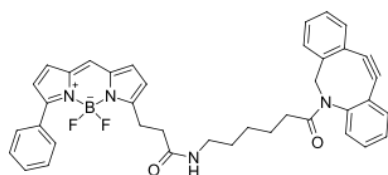
## BDP® R6G DBCO

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

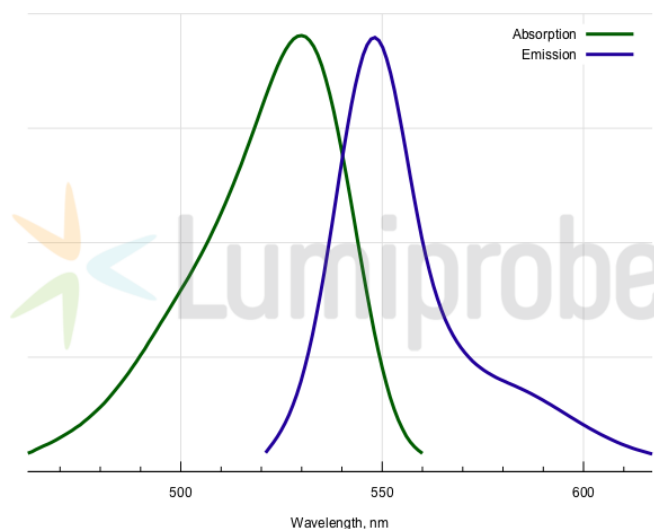
BDP R6G is a bright and photostable substitute for Rhodamine 6G (R6G). BDP stands for borondipyrromethene, a versatile fluorophore scaffold that is specially tuned in this molecule to match absorption and emission of R6G.

DBCO (azodibenzocyclooctyne) is a strained cyclic alkyne that reacts rapidly with azides, giving rise to stable triazoles. The reaction does not require the use of any catalyst; it is tolerant to most biologically important functional groups.

BDP R6G DBCO is useful for the synthesis of fluorescent conjugates and visualization of azide groups bound to biomolecules and surfaces.



**Structure of BDP R6G DBCO**



**Absorption and emission spectra of BDP R6G**

### General properties

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Appearance:             | red to brown solid                                                                                                                                                                                                                                                                                                                                                                                                             |
| Mass spec M+ increment: | 640.3                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Molecular weight:       | 640.53                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Molecular formula:      | C <sub>39</sub> H <sub>35</sub> N <sub>4</sub> BF <sub>2</sub> O <sub>2</sub>                                                                                                                                                                                                                                                                                                                                                  |
| Solubility:             | good in DMF, DMSO, DCM                                                                                                                                                                                                                                                                                                                                                                                                         |
| Quality control:        | NMR <sup>1</sup> 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:        | 0.19 |

BDP® is a trademark of Lumiprobe