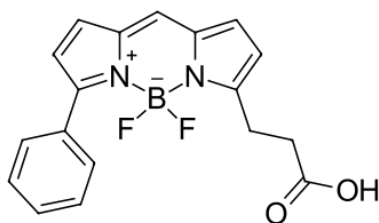


BDP® R6G carboxylic acid

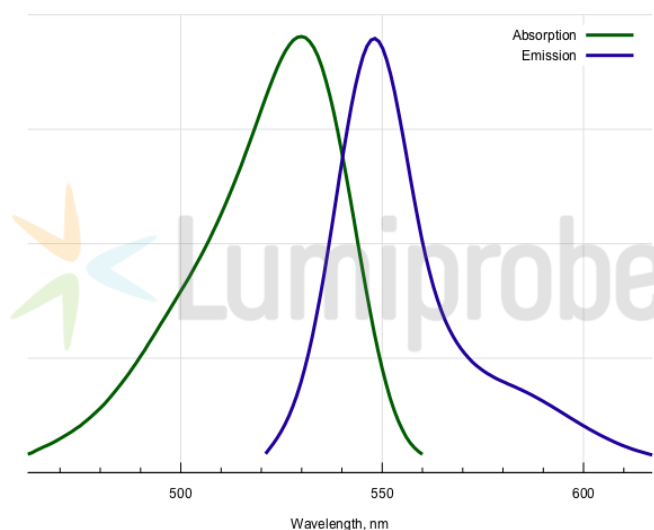
<http://www.lumiprobe.com/p/bdp-r6g-carboxylic-acid>

BDP R6G is a borondipyrromethene dye. The fluorophore has absorption and emission spectra resembling R6G rhodamine.

The carboxylic acid can be used in experiments when conjugation of the dye to other molecules is not necessary. The carboxylic acid group can also be activated for subsequent labeling reactions like Steglich esterification.



Structure of BDP R6G carboxylic acid



Absorption and emission spectra of BDP R6G fluorophore

General properties

| | |
|---------------------|--|
| Appearance: | colorless solid |
| Molecular weight: | 340.13 |
| CAS number: | 174881-57-3 |
| Molecular formula: | C ₁₈ H ₁₅ BF ₂ N ₂ O ₂ |
| IUPAC name: | 3-(4,4-Difluoro-5-phenyl-3a,4a-diaza-4-bora-s-indacen-3-yl)propionic acid |
| Solubility: | good in DMF, DMSO, ethanol, methanol, 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 |
| ε, L·mol ⁻¹ ·cm ⁻¹ : | 70,000 |
| Emission maximum, nm: | 548 |
| Fluorescence quantum yield: | 0.96 |
| CF ₂₆₀ : | 0.17 |
| CF ₂₈₀ : | 0.18 |