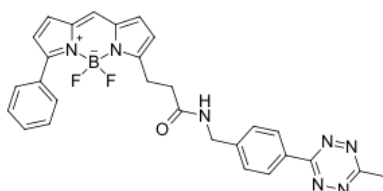


BDP R6G tetrazine

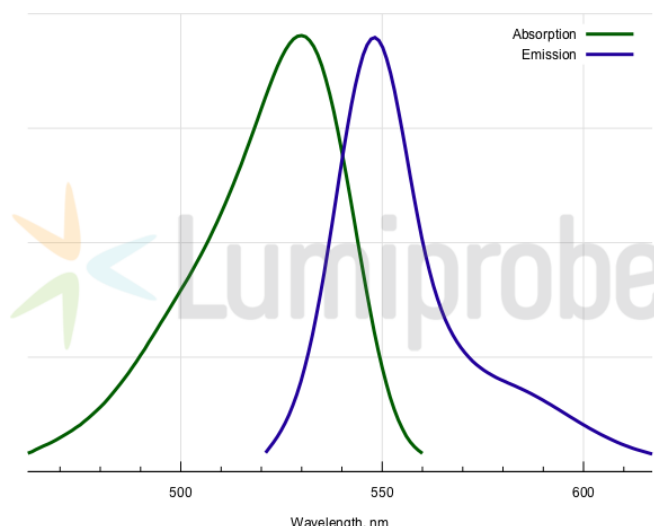
<http://www.lumiprobe.com/p/bodipy-r6g-tetrazine>

BDP R6G is a borondipyrromethene dye that has absorption and emission wavelengths close to rhodamine 6G (R6G). BDP R6G is a very bright and photostable dye.

Tetrazine fragment is used in inverse electron demand Diels Alder reaction with trans-cyclooctenes, acylazetines, and other strained olefins.



Structure of BDP R6G tetrazine



Absorption and emission spectra of BDP R6G

General properties

| | |
|-------------------------|---|
| Appearance: | orange to brown solid |
| Mass spec M+ increment: | 495.2 |
| Molecular weight: | 523.34 |
| Molecular formula: | C ₂₈ H ₂₄ N ₇ BF ₂ O |
| Solubility: | good in DMF, DMSO, DCM, poorly soluble in water |
| 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. |

Spectral properties

| | |
|------------------------------------|------|
| Excitation/absorption maximum, nm: | 530 |
| Emission maximum, nm: | 548 |
| Fluorescence quantum yield: | 0.96 |
| CF ₂₆₀ : | 0.17 |
| CF ₂₈₀ : | 0.18 |

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