

## **Lumiprobe Corporation**

201 International Circle, Suite 135 Hunt Valley, Maryland 21030

**USA** 

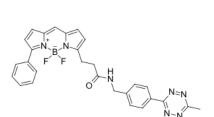
Phone: +1 888 973 6353 Fax: +1 888 973 6354 Email: order@lumiprobe.com

## **BDP® R6G tetrazine**

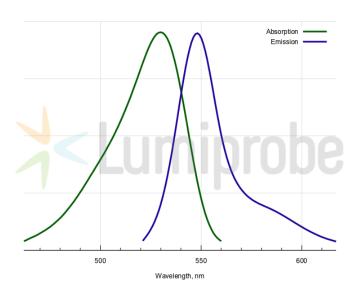
http://www.lumiprobe.com/p/bdp-r6g-tetrazine

BDP R6G is a borondipyrromethene dye with 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:  $C_{28}H_{24}N_7BF_2O$ 

Solubility: good in DMF, DMSO, DCM, poorly soluble in water

Quality control: NMR <sup>1</sup>H, HPLC-MS (95%)

Storage conditions: Storage: 24 months after receival 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  $CF_{260}$ : 0.17  $CF_{280}$ : 0.18

BDP® is a trademark of Lumiprobe