

## **Lumiprobe Corporation**

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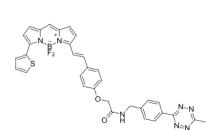
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## BDP® 630/650 tetrazine

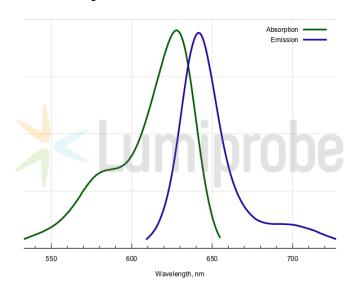
http://www.lumiprobe.com/p/bdp-630-650-tetrazine

BDP 630/650 is a borondipyrromethene dye with red emisssion. This fluorophore matches Cyanine5 channel that is often used when minimal background is desired.

Tetrazines react with trans-cyclooctenes in an ultra fast reaction called TCO ligation.



Structure of BDP 630/650 tetrazine



Absorption and emission spectra of BDP 630/650

## **General properties**

Appearance: dark colored solid

Mass spec M+ increment: 605.2 Molecular weight: 633.48

Molecular formula:  $C_{33}H_{26}N_7BF_2O_2S$ 

Solubility: good in many organic solvents

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: 628  $\epsilon$ , L·mol $^{-1}$ ·cm $^{-1}$ : 97000 Emission maximum, nm: 642 Fluorescence quantum yield: 0.91 CF $_{260}$ : 0.029 CF $_{280}$ : 0.035

BDP® is a trademark of Lumiprobe