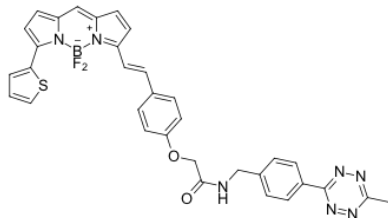


BDP® 630/650 tetrazine

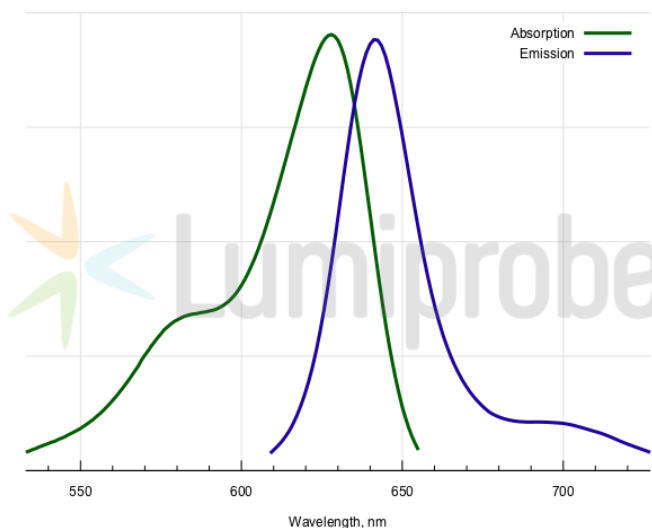
<http://www.lumiprobe.com/p/bdp-630-650-tetrazine>

BDP 630/650 is a borondipyrromethene dye with red emission. 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 ₇ BF ₂ O ₂ S
Solubility:	good in many organic solvents
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:	628
ε, L·mol ⁻¹ ·cm ⁻¹ :	97000
Emission maximum, nm:	642
Fluorescence quantum yield:	0.91
CF ₂₆₀ :	0.029
CF ₂₈₀ :	0.035