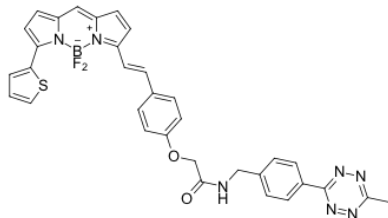


BDP 630/650 tetrazine

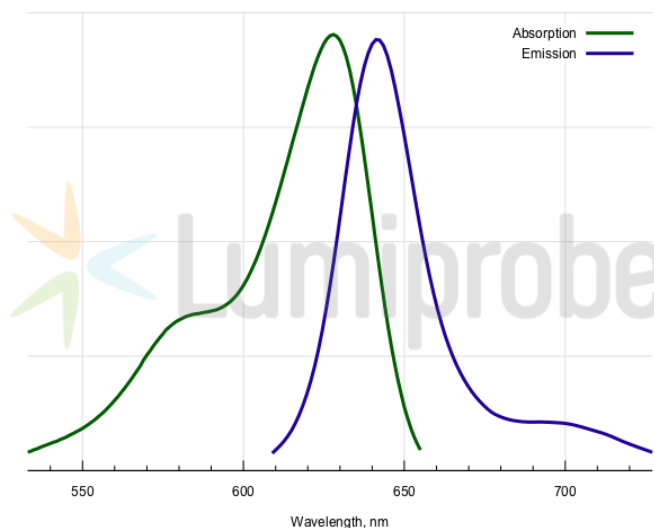
<http://www.lumiprobe.com/p/bodipy-630-650-tetrazine>

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.

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