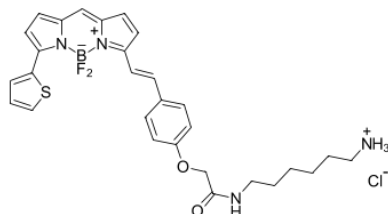


BDP 630/650 amine

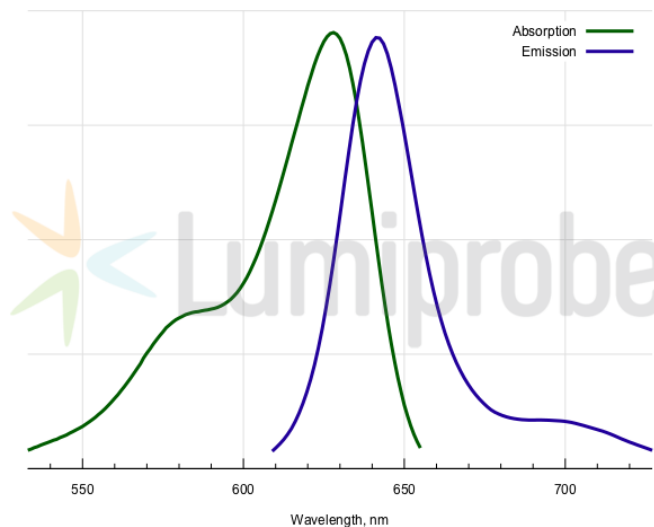
BDP 630/650 is a far red emitting, borondipyrromethene based fluorophore. The dye is tuned to match the standard Cy5 channel, and can be used as an alternative to [Cyanine5](#) and [sulfo-Cyanine5](#). Compared to cyanines, BDP 630/650 possesses a longer fluorescence lifetime which is important for fluorescence anisotropy measurements.

BDP 630/650 has a brightness similar to cyanines, and an exceptional photostability.

This amine derivative is useful for the reaction with electrophiles, and for enzymatic transamination labeling.



Structure of BDP 630/650 Amine



Absorption and emission spectra of BDP 630/650

General properties

Appearance:	dark violet solid
Molecular weight:	584.92
Molecular formula:	C ₂₉ H ₃₂ N ₄ BClF ₂ O ₂ S
Solubility:	moderately soluble in water (81 mM = 47.2 mg/mL), well soluble in DMF, DMSO, alcohols
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.
TN VED Code:	3204190000

Spectral properties

Excitation 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