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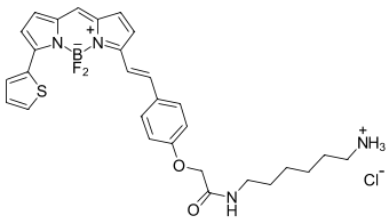
BDP® 630/650 amine

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

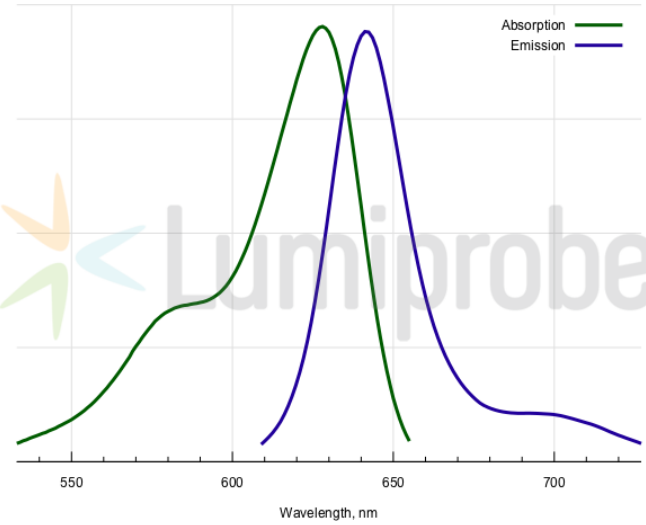
BDP 630/650 is a far red emitting, borondipyrromethene based fluorophore. The dye is tuned to match the standard Cy5 channel, and can be used as an alternative to Cyanine5 and sulfo-Cyanine5. Compared to cyanines, BDP 630/650 possesses a longer fluorescence lifetime which is important for fluorescence 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:	$C_{29}H_{32}N_4BClF_2O_2S$
Solubility:	moderately soluble in water (81 mM = 47.2 mg/mL), well soluble in DMF, DMSO, alcohols
Quality control:	NMR ^1H, 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
ε, $L \cdot mol^{-1} \cdot cm^{-1}$:	97000
Emission maximum, nm:	642
Fluorescence quantum yield:	0.91
CF_{260}:	0.029
CF_{280}:	0.035