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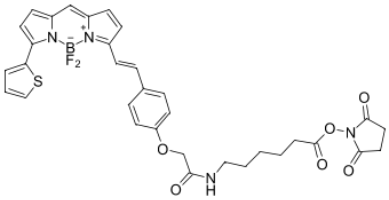
BDP 630/650-X-NHS ester

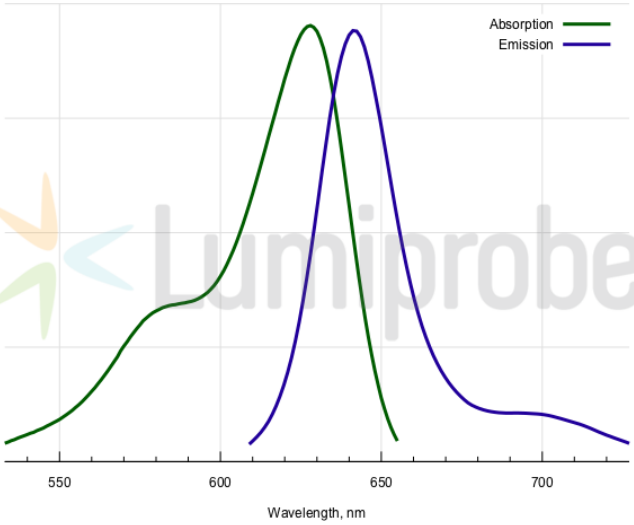
http://www.lumiprobe.com/p/bdp-630-650-x-nhs-ester

BDP 630/650 is a borondipyrromethene fluorophore that has a high molar extinction coefficient, excellent quantum yield, and a relatively long lifetime of the excited state. Due to it, this fluorophore is useful for fluorescence polarization assays that allow to detect binding between molecules.

This is an amine reactive NHS ester. It contains an aminohexanoyl linker between the fluorophore and the reactive group.



Structure of BDP 630/650-X-NHS ester



Absorption and emission spectra of BDP 630/650

General properties

Appearance:	dark colored solid
Mass spec M+ increment:	545.2
Molecular weight:	660.5
CAS number:	2213445-35-1; 380367-48-6
Molecular formula:	$C_{33}H_{31}N_4BF_2O_6S$
IUPAC name:	Succinimidyl-6-[2-(p-{(E)-2-[4,4-difluoro-5-(2-thienyl)-3a,4a-diaza-4-bora-s-indacen-3-yl]ethenyl}phenoxy)acetylamino]hexanoate
Solubility:	good in DMF, DMSO
Quality control:	NMR ^1H, HPLC-MS (95%)
Storage conditions:	Storage: 12 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