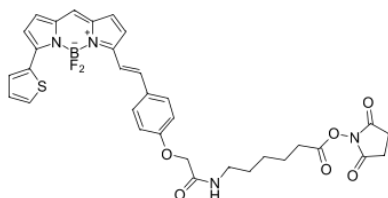


BDP 630/650 X NHS ester

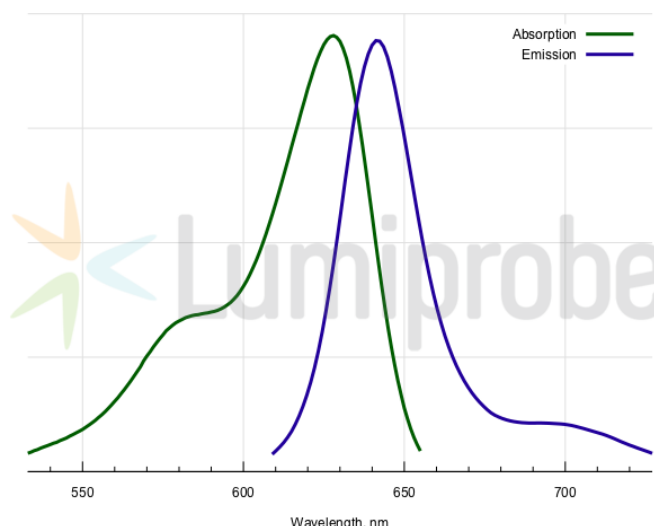
<http://www.lumiprobe.com/p/bodipy-630-650-x-nhs-ester>

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 ₄ BF ₂ O ₆ S
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)acetylaminohexanoate
Solubility:	good in DMF, DMSO
Quality control:	NMR ¹ H, HPLC-MS (95%)
Storage conditions:	Storage: 12 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

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