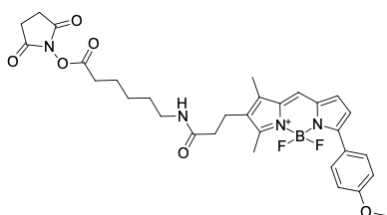


BDP TMR X NHS ester

<http://www.lumiprobe.com/p/bdp-tmr-x-nhs-ester>

BDP TMR is a borondipyrromethene dye for the TAMRA channel. The dye has much brighter fluorescence than TAMRA. Because of the rather long lifetime of the excited state, this fluorophore is a good choice for fluorescence anisotropy measurements.

This derivative is an amine-reactive NHS ester with an aminohexanoic acid (C6) linker between the dye and the functional group. The dye is suitable for labeling proteins, peptides, and other molecules with amino groups.



Structure of BDP TMR X NHS ester

General properties

Appearance:	dark colored solid
Molecular weight:	608.45
CAS number:	217190-15-3
Molecular formula:	C ₃₁ H ₃₅ BF ₂ N ₄ O ₆
Quality control:	NMR ¹ H and HPLC-MS (95+%)
Storage conditions:	12 months after receipt at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Desiccate. Avoid prolonged exposure to light.

Spectral properties

Excitation/absorption maximum, nm:	542
ε, L·mol ⁻¹ ·cm ⁻¹ :	55000
Emission maximum, nm:	574
Fluorescence quantum yield:	0.64
CF ₂₆₀ :	0.16
CF ₂₈₀ :	0.16

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