

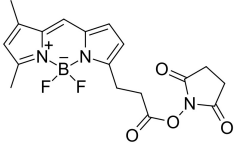
BDP FL NHS ester (A270096)

Specifications:

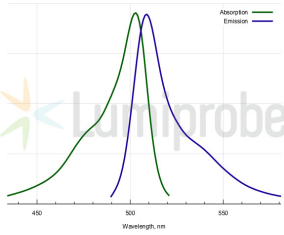
Name:	BDP FL NHS ester
Description:	BDP FL NHS ester is an advanced dye for the 488 nm channel, a replacement for fluorescein, a molecule identical to BODIPY FL® NHS ester. An amino-reactive dye for the labeling of proteins and peptides. While the absorbance and emission spectra of this molecule stay within FAM excitation and emission channels, this dye provides much better photostability, and outstanding brightness. The fluorescence spectrum of BODIPY-FL is narrower than that of FAM. This provides a better brightness for monochromator based instruments, when emission wavelength can be tuned to dye maximum. The dye is neutral, possesses low molecular weight, and retains high quantum yield in conjugates. The dye is a good replacement for fluorescein (FAM), BODIPY-FL, Alexa Fluor 488, DyLight 488, Cy2, and other 488 nm dyes.
Absorption Maxima:	503 nm
Extinction Coefficient:	92000 M ⁻¹ cm ⁻¹
Emission Maxima:	509 nm
Fluorescence Quantum Yield:	0.97
CAS Number:	146616-66-2
CF ₂₆₀ :	0.015
CF ₂₈₀ :	0.027
Mass Spec M+ Shift after Conjugation:	274.1
Purity:	> 95% (by 1H NMR and HPLC-MS).
Molecular Formula:	C ₁₈ H ₁₈ BF ₂ N ₃ O ₄
Molecular Weight:	389.16 kDa
Product Form:	Orange solid.
Solubility:	Good in organic solvents (DMF, DMSO, dichloromethane). Limited in water.
Storage:	Shipped at room temperature. Upon delivery, store in the dark at -20°C. Avoid prolonged exposure to light. Desiccate.
Disclaimer:	This product is for research use only. It is not intended for diagnostic or therapeutic use.

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Images:



Structure of BODIPY FL NHS ester.



Absorption and emission spectra of BDP FL.