

## BDP FL NHS ester

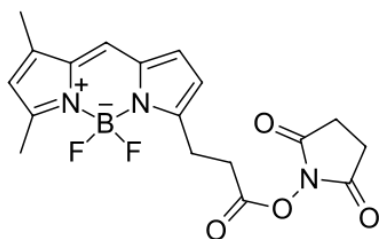
<http://www.lumiprobe.com/p/bodipy-fl-nhs-ester>

BDP FL NHS ester is an advanced dye for 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.

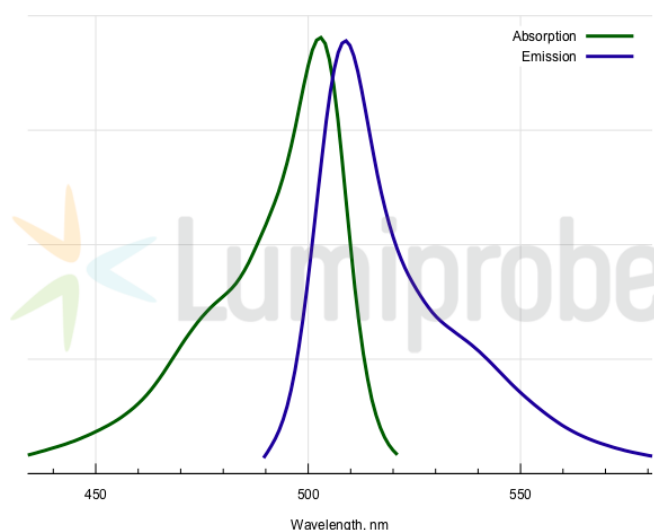
While the absorbance and emission spectra of this molecule stay within FAM excitation and emission channels, this dye provides much better photostability, and outstanding brightness. The fluorescence spectrum of BODIPY-FL is narrower than that of FAM. This provides a better brightness for monochromator 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.



**Structure of BODIPY FL NHS ester**



**Absorption and emission spectra of BDP FL**

### General properties

Appearance:	orange solid
Mass spec M+ increment:	274.1
Molecular weight:	389.16
CAS number:	146616-66-2
Molecular formula:	C <sub>18</sub> H <sub>18</sub> BF <sub>2</sub> N <sub>3</sub> O <sub>4</sub>
Solubility:	Good in organic solvents (DMF, DMSO, dichloromethane), limited in water
Quality control:	NMR <sup>1</sup> 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.
TN VED Code:	3204190000

### Spectral properties

Excitation maximum, nm:	503
ε, L·mol <sup>-1</sup> ·cm <sup>-1</sup> :	92000
Emission maximum, nm:	509
Fluorescence quantum yield:	0.97
CF <sub>260</sub> :	0.015
CF <sub>280</sub> :	0.027

BODIPY® is a trademark of Life Technologies.