Lumiprobe Corporation
115 Airport Dr Suite 160
Westminster, Maryland 21157
USA
Phone: +1 888 973 6353
Fax: +1 888 973 6354
Email: order@lumiprobe.com

BDP® FL NHS ester

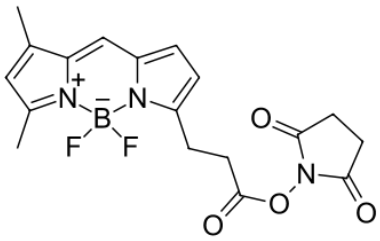
http://www.lumiprobe.com/p/bdp-fl-nhs-ester

BDP FL NHS ester is an advanced dye for 488 nm channel, a replacement for fluorescein. An amino-reactive dye for the labeling of proteins and peptides.

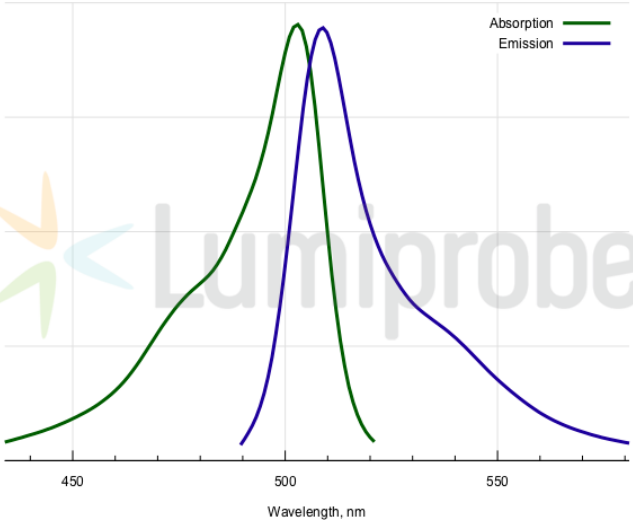
While the absorbance and emission spectra of this molecule stay within FAM excitation and emission channels, this dye provides much better photostability, and outstanding brightness. The fluorescence spectrum of BDP FL is narrower than that of FAM. This provides a better brightness for monochromator 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), 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:	$C_{18}H_{18}BF_2N_3O_4$
Solubility:	Good in organic solvents (DMF, DMSO, dichlromethane), limited in water
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:	503
ε, $L \cdot mol^{-1} \cdot cm^{-1}$:	92000
Emission maximum, nm:	509

Fluorescence quantum yield:	0.97
CF_{260}:	0.015
CF_{280}:	0.027