Lumiprobe Corporation
201 International Circle, Suite 135
Hunt Valley, Maryland 21030
USA
Phone: +1 888 973 6353
Fax: +1 888 973 6354
Email: order@lumiprobe.com

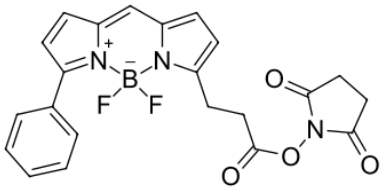
BDP® R6G NHS ester

http://www.lumiprobe.com/p/bdp-r6g-nhs-ester

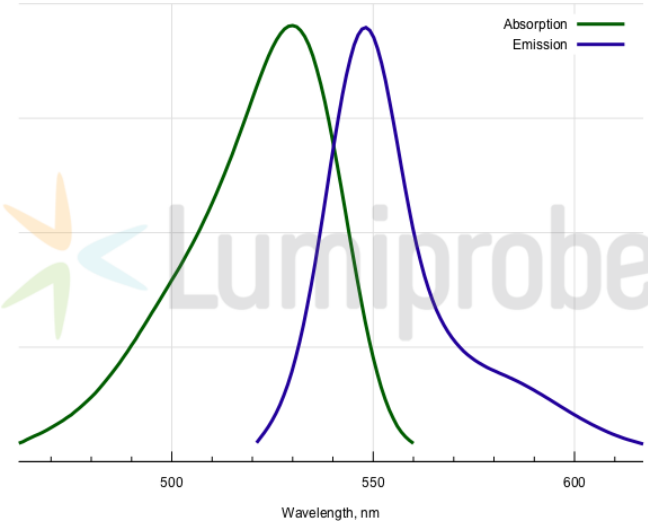
BDP R6G NHS ester is an amine-reactive borondipyrromethene dye that has absorption and emission spectra similar to R6G.

BDP R6G is a bright and photostable dye that exhibits long living fluorescence that has little pH dependence. Due to the long fluorescence lifetime, this dye is useful for fluorescence polarization assays, and for two-photon experiments.

The NHS ester function can be conjugated with various amine groups, including those present in proteins and peptides.



Structure of BDP R6G NHS ester



Absorption and emission spectra of BDP R6G fluorophore

General properties

Appearance:	dark-green crystals
Mass spec M+ increment:	322.1
Molecular weight:	437.21
CAS number:	335193-70-9, 1443457-59-7
Molecular formula:	$C_{22}H_{18}BF_2N_3O_4$
IUPAC name:	2,5-Dioxo-1-pyrrolidinyl 3-(4,4-difluoro-5-phenyl-3a,4a-diaza-4-bora-s-indacen-3-yl)propionate
Solubility:	good in DMF, DMSO, DCM
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:	530
ε, $L \cdot mol^{-1} \cdot cm^{-1}$:	76000
Emission maximum, nm:	548
Fluorescence quantum yield:	0.96

CF_{260}:	0.17
CF_{280}:	0.18

BDP® is a trademark of Lumiprobe