

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

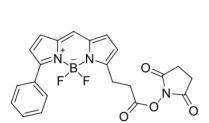
BDP® R6G NHS ester

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

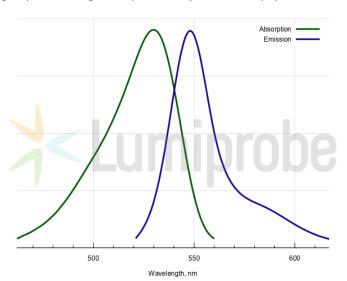
BDP R6G NHS ester is an amine-reactive borondipyrromethene dye that has absorption and emission spectra similar to R6G.

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 530

maximum, nm:

 ϵ , L·mol⁻¹·cm⁻¹: 76000 Emission maximum, nm: 548 Fluorescence quantum yield: 0.96 CF_{260} : 0.17 CF_{280} : 0.18

 $\ensuremath{\mathsf{BDP}}\xspace{\mathbb{R}}$ is a trademark of Lumiprobe