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BDP® R6G carboxylic acid

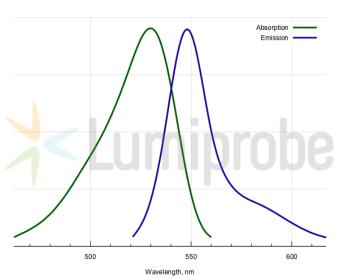
http://www.lumiprobe.com/p/bdp-r6g-carboxylic-acid

BDP R6G is a borondipyrromethene dye. The fluorophore has absorption and emission spectra resembling R6G rhodamine.

The carboxylic acid can be used in experiments when conjugation of the dye to other molecules is not necessary. The carboxylic acid group can also be activated for subsequent labeling reactions like Steglich esterification.



Structure of BDP R6G carboxylic acid



Absorption and emission spectra of BDP R6G fluorophore

General properties

Appearance: colorless solid

Molecular weight: 340.13

CAS number: 174881-57-3 Molecular formula: $C_{18}H_{15}BF_2N_2O_2$

IUPAC name: 3-(4,4-Difluoro-5-phenyl-3a,4a-diaza-4-bora-s-indacen-3-yl)propionic acid

Solubility: good in DMF, DMSO, ethanol, methanol, DCM

Quality control: NMR ¹H. HPLC-MS (95%)

Storage conditions: Storage: 24 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:

CF₂₈₀:

ε, L·mol⁻¹·cm⁻¹: 70,000

Emission maximum, nm: 548

on maximum, mm.

0.18

Fluorescence quantum yield: 0.96

CF₂₆₀: 0.17

BDP® is a trademark of Lumiprobe