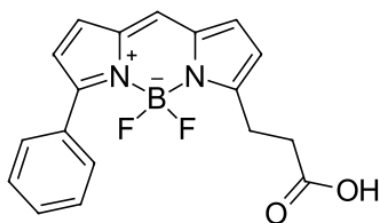


BDP R6G carboxylic acid

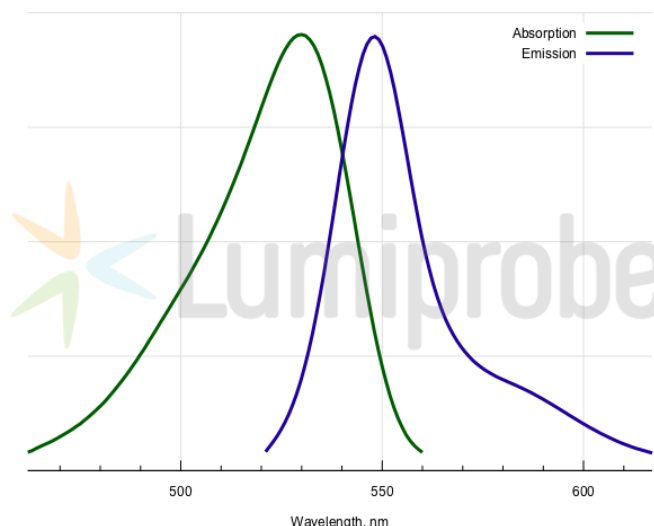
<http://www.lumiprobe.com/p/bodipy-r6g-carboxylic-acid>

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 ₂ N ₂ O 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 ¹ H, HPLC-MS (95%)
Storage conditions:	Storage: 24 months after receipt at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Avoid prolonged exposure to light. Desiccate.

Spectral properties

Excitation/absorption maximum, nm:	530
ε, L·mol ⁻¹ ·cm ⁻¹ :	70,000
Emission maximum, nm:	548
Fluorescence quantum yield:	0.96
CF ₂₆₀ :	0.17
CF ₂₈₀ :	0.18

BDP® is a trademark of Lumiprobe