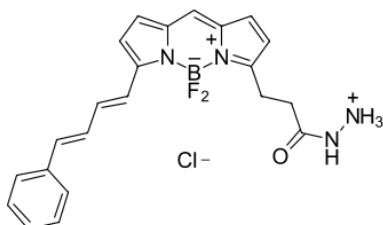


## BDP 581/591 hydrazide

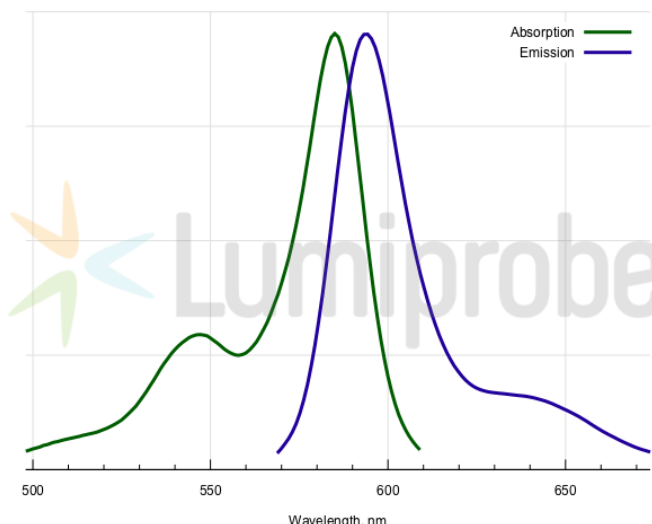
<http://www.lumiprobe.com/p/bodipy-581-591-hydrazide>

BDP 581/591 hydrazide is a carbonyl reactive dye. BDP 581/591 is a borondipyrromethene fluorophore with bright emission, and outstanding photostability.

Aldehyde and ketone groups that can be labeled can be obtained by oxidation of 1,2-diol groups in sugars; they are also present in proteins after oxidative stress, and in many small molecules.



**Structure of BDP 581/591 hydrazide**



**Absorption and emission spectra of BDP 581/591**

### General properties

Appearance:	dark colored solid
Mass spec M+ increment:	388.2
Molecular weight:	442.7
Molecular formula:	C <sub>22</sub> H <sub>22</sub> N <sub>4</sub> BClF <sub>2</sub> O
Solubility:	good in DMF, DMSO, alcohols
Quality control:	NMR <sup>1</sup> 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:	585
ε, L·mol <sup>-1</sup> ·cm <sup>-1</sup> :	104000
Emission maximum, nm:	594
Fluorescence quantum yield:	0.83
CF <sub>260</sub> :	0.06
CF <sub>280</sub> :	0.04

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