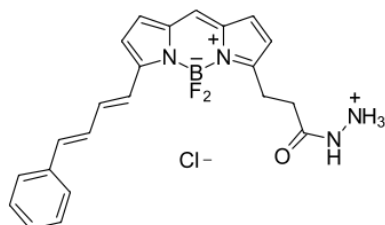


## BDP® 581/591 hydrazide

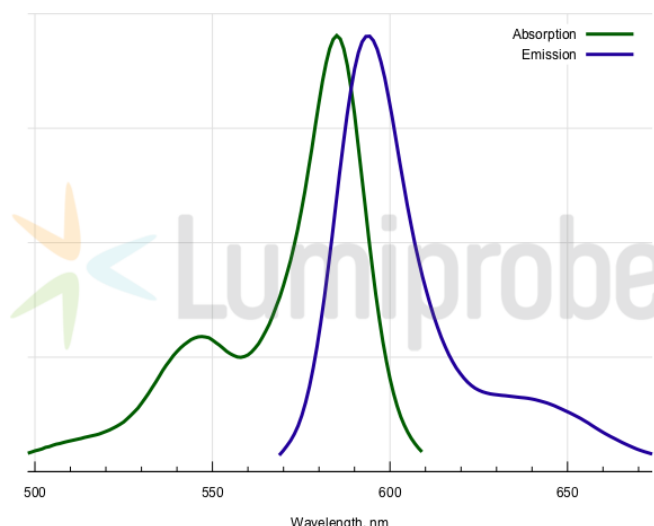
<http://www.lumiprobe.com/p/bdp-581-591-hydrazide>

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.
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:	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