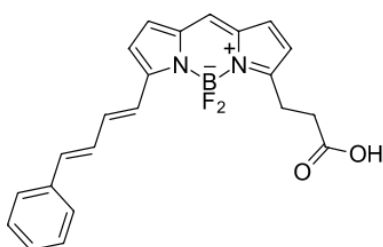


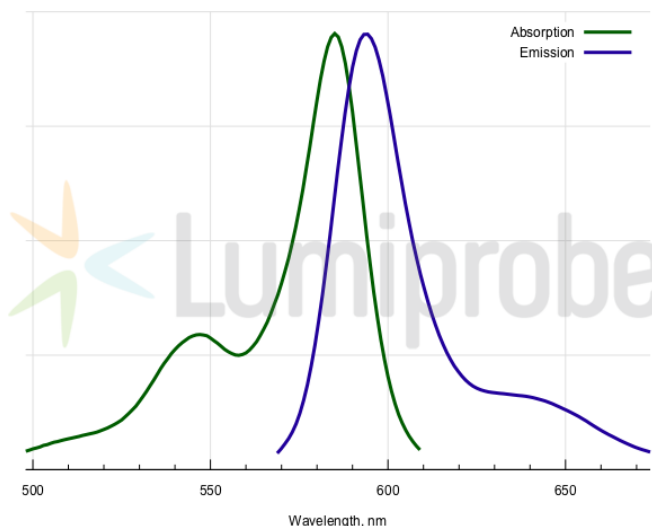
## BDP 581/591 carboxylic acid

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

BDP 581/591 is a fluorophore that can be also used for ROS detection. This is a carboxylic acid dye derivative with a free COOH group.



**Structure of BDP 581/591 carboxylic acid**



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

### General properties

Appearance:	dark powder
Molecular weight:	392.21
Molecular formula:	C <sub>22</sub> H <sub>19</sub> N <sub>2</sub> BF <sub>2</sub> O <sub>2</sub>
Solubility:	good in DMF, DMSO, DCM
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.
TN VED Code:	3204190000

### 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