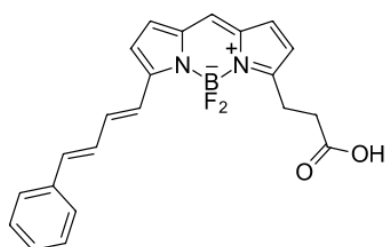


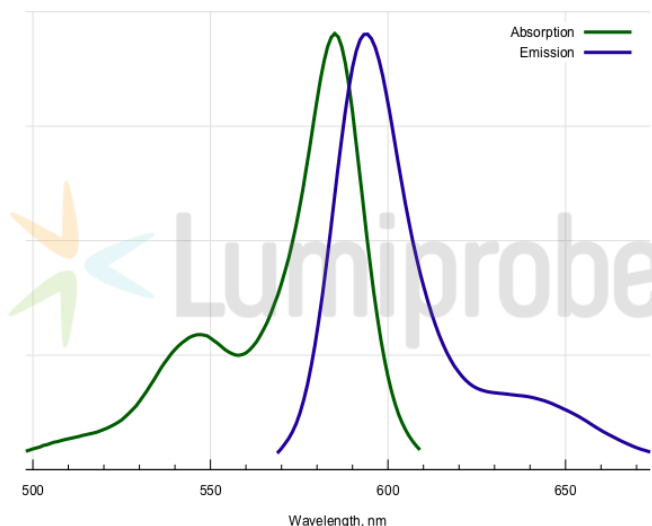
## BDP® 581/591 carboxylic acid

<http://www.lumiprobe.com/p/bdp-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
CAS number:	480999-04-0
Molecular formula:	$C_{22}H_{19}N_2BF_2O_2$
Solubility:	good in DMF, DMSO, DCM
Quality control:	NMR $^1H$ , HPLC-MS (95%)
Storage conditions:	Storage: 24 months after receipt at $-20^\circ C$ 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
$\epsilon$ , $L \cdot mol^{-1} \cdot cm^{-1}$ :	104000
Emission maximum, nm:	594
Fluorescence quantum yield:	0.83
$CF_{260}$ :	0.06
$CF_{280}$ :	0.04

BDP® is a trademark of Lumiprobe