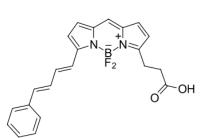


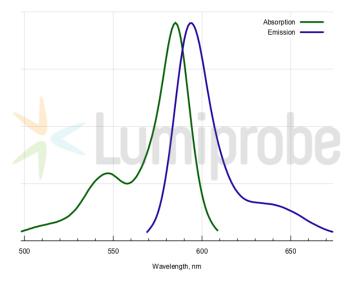
## BDP® 581/591 carboxylic acid

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 <sup>1</sup> H, HPLC-MS (95%)
Storage conditions:	Storage: 24 months after receival 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	

BDP® is a trademark of Lumiprobe