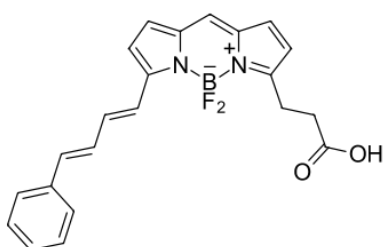


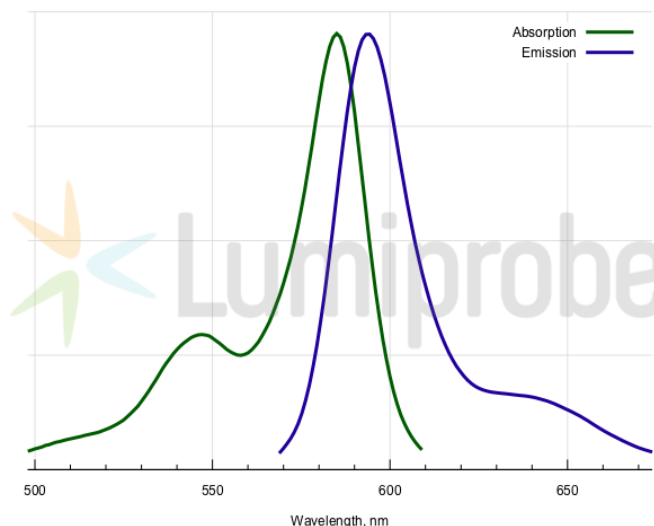
BDP 581/591 carboxylic acid

<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
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.

Spectral properties

Excitation/absorption maximum, nm:	585
ϵ , $L \cdot mol^{-1} \cdot cm^{-1}$:	104000
Emission maximum, nm:	594
Fluorescence quantum yield:	0.83
CF_{260} :	0.06
CF_{280} :	0.04

BDP® is a trademark of Lumiprobe