

## **Lumiprobe Corporation**

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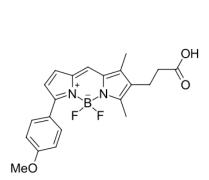
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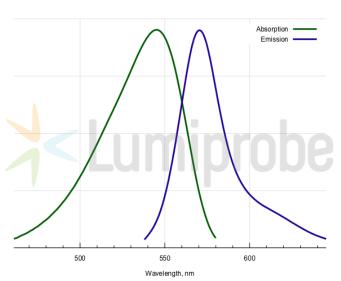
## **BDP TMR carboxylic acid**

http://www.lumiprobe.com/p/bodipy-tmr-carboxylic-acid

This free carboxylic acid can be used as a non-reactive control in side-by side experiments with other reactive derivatives of BDP TMR. It can also be used for Steglich esterification.



Structure of BODIPY TMR carboxylic acid



Absorption and emission spectra of BDP TMR

## **General properties**

Appearance: dark green-black crystals

Molecular weight: 398.21

CAS number: 287384-28-5 Molecular formula:  $C_{21}H_{21}BF_2N_2O_3$ 

IUPAC name: 3-[4,4-Difluoro-5-(p-methoxyphenyl)-1,3-dimethyl-3a,4a-diaza-4-bora-s-indacen-2-yl]propionic acid

Solubility: good in alcohols, DMSO, DMF

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.

## **Spectral properties**

Excitation/absorption

maximum, nm:

542

 $\epsilon$ , L·mol<sup>-1</sup>·cm<sup>-1</sup>: 55000 Emission maximum, 574

nm·

Fluorescence quantum 0.64

yield:

CF<sub>260</sub>: 0.16 CF<sub>280</sub>: 0.16

BDP® is a trademark of Lumiprobe