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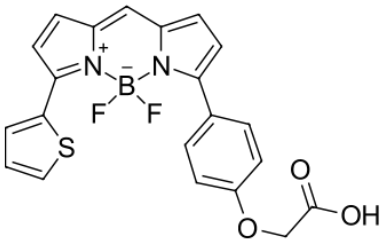
BDP® TR carboxylic acid

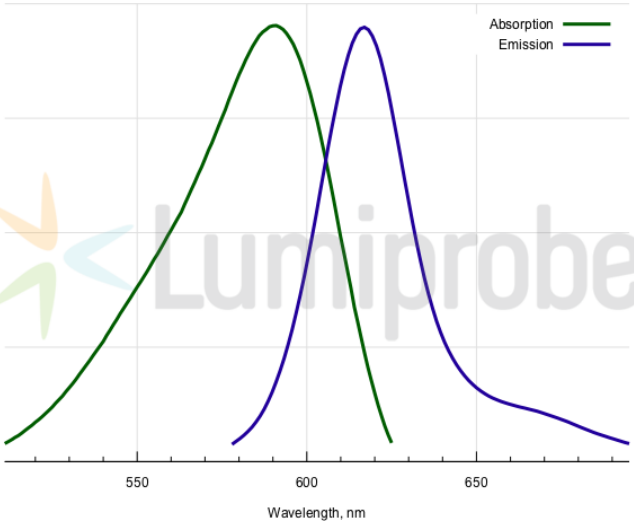
http://www.lumiprobe.com/p/bdp-tr-carboxylic-acid

BDP TR is a bright and photostable fluorophore for ROX channel. It is moderately hydrophobic, has relatively long lifetime of the excited state, and significant two photon cross section.

This carboxylic acid derivative can be used for the labeling of alcohols by Steglich esterification, or in non-conjugated form (non-activated carboxy group can be considered inert for applications that do not require conjugation).



Structure of BDP TR carboxylic acid



Absorption and emission spectra of BDP TR

General properties

Appearance:	dark colored solid
Molecular weight:	424.23
CAS number:	150152-64-0
Molecular formula:	$C_{21}H_{15}N_2BF_2O_3S$
Solubility:	good in DMF, DMSO
Quality control:	NMR ^1H, 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:	589
ε, $L \cdot mol^{-1} \cdot cm^{-1}$:	69000
Emission maximum, nm:	616
Fluorescence quantum yield:	0.9
CF_{260}:	0.15
CF_{280}:	0.19