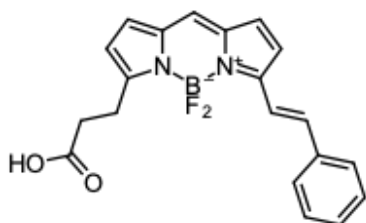


BDP 564/570 carboxylic acid

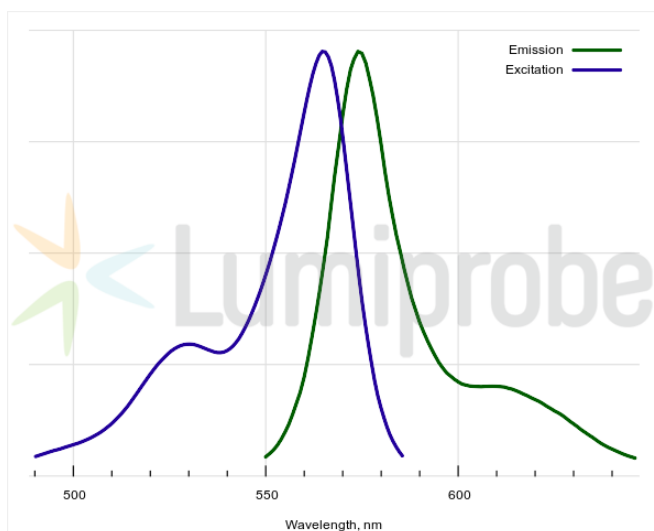
<http://www.lumiprobe.com/p/bdp-564-570-carboxylic-acid>

BDP 564/570 is a fluorophore with the emission in orange part of the spectrum. The dye is pretty hydrophobic. It can be used for the labeling of lipids, oligonucleotides, peptides, and many other large and small molecules.

Free carboxylic acid can be used in peptide synthesis as an N-terminal monomer. An NHS ester, with a pre-activated carboxy group, is also available.



Structure of BDP 564/570 carboxylic acid



Absorption and emission spectra of BDP 564/570

General properties

Appearance:	dark colored solid
Molecular weight:	366.17
CAS number:	150173-89-0
Molecular formula:	$C_{20}H_{17}N_2BF_2O_2$
Solubility:	good in DMF, DMSO, chlorinated organic solvents
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:	565
ϵ , $L \cdot mol^{-1} \cdot cm^{-1}$:	110000
Emission maximum, nm:	574
Fluorescence quantum yield:	0.74
CF_{260} :	0.01
CF_{280} :	0.03

BDP® is a trademark of Lumiprobe