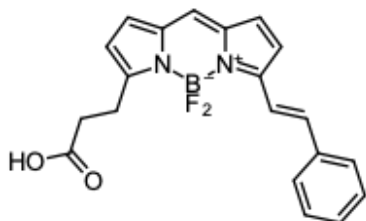


BDP® 564/570 carboxylic acid

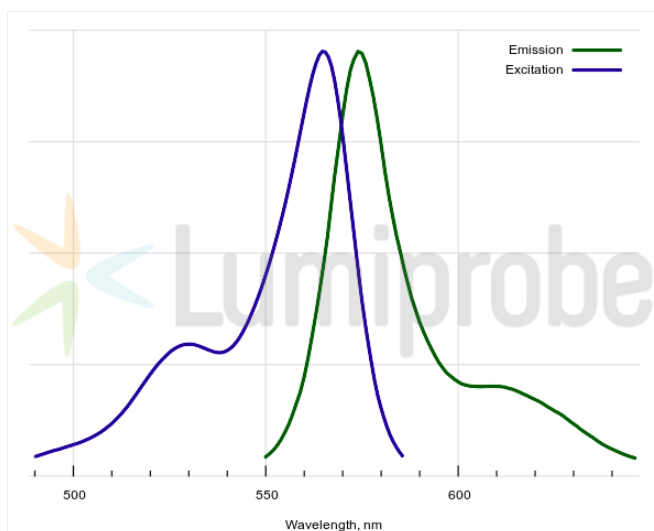
<http://www.lumiprobe.com/p/bdp-564-570-carboxylic-acid>

BDP 564/570 is a fluorophore with the emission in the 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 ₂ BF ₂ O ₂ |
| Solubility: | good in DMF, DMSO, chlorinated organic solvents |
| Quality control: | NMR ¹ H, HPLC-MS (95%) |
| Storage conditions: | Storage: 24 months after receipt 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: | 565 |
| ε, L·mol ⁻¹ ·cm ⁻¹ : | 110000 |
| Emission maximum, nm: | 574 |
| Fluorescence quantum yield: | 0.74 |
| CF ₂₆₀ : | 0.01 |
| CF ₂₈₀ : | 0.03 |