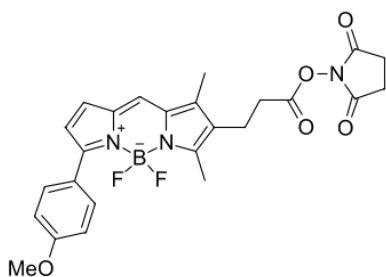


BDP TMR NHS ester

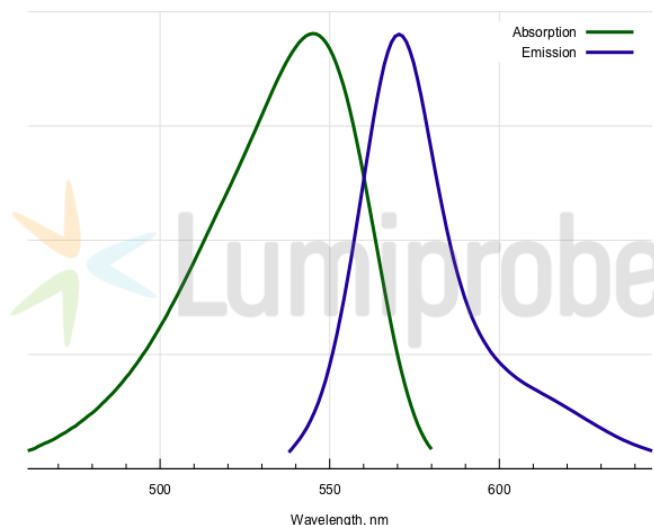
<http://www.lumiprobe.com/p/bdp-tmr-nhs-ester>

BDP TMR is a borondipyrromethene dye. This is an amine-reactive NHS ester for the labeling of proteins, peptides, and other molecules with amino groups.

BDP TMR is a dye for the TAMRA channel, which is, however, much brighter than TAMRA. Because of the rather long lifetime of the excited state, this fluorophore is a good choice for fluorescence anisotropy measurements, especially with the short linker offered. Fluorescence polarization is an excellent method for high throughput binding assays.



Structure of BODIPY TMR NHS ester



Absorption and emission spectra of BDP TMR

General properties

| | |
|-------------------------|--|
| Appearance: | purple solid |
| Mass spec M+ increment: | 380.2 |
| Molecular weight: | 495.28 |
| CAS number: | 485397-12-4 |
| Molecular formula: | C ₂₅ H ₂₄ BF ₂ N ₃ O ₅ |
| Solubility: | good in most organic solvents (DMF, DMSO, DCM, acetone, etc.) |
| Quality control: | NMR ¹ H, HPLC-MS (95%) |
| Storage conditions: | Storage: 12 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: | 542 |
| ϵ , L·mol ⁻¹ ·cm ⁻¹ : | 55000 |
| Emission maximum, nm: | 574 |
| Fluorescence quantum yield: | 0.64 |
| CF ₂₆₀ : | 0.16 |
| CF ₂₈₀ : | 0.16 |