

Lumiprobe Corporation

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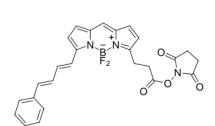
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BDP 581/591 NHS ester

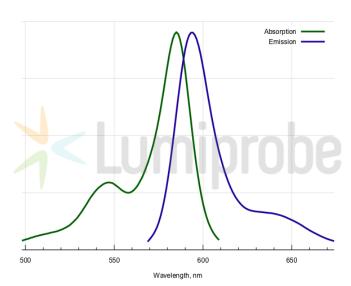
http://www.lumiprobe.com/p/bodipy-581-591-nhs-ester

BDP 581/591 is a borondipyrromethene dye that has relatively long fluorescence lifetime and two photon excitation cross section. It is useful for fluorescence polarization assays. Due to the presence of a diene system, it can react with reactive oxygen species (ROS) with a change of fluorescence.

This is the NHS ester derivative for the conjugation with primary and secondary amine groups of proteins, peptides, and other molecules.



Structure of BDP 581/591 NHS ester



Absorption and emission spectra of BDP 581/591

General properties

Appearance: dark colored solid

Mass spec M+ increment:374.1Molecular weight:489.28CAS number:150152-70-8Molecular formula: $C_{26}H_{22}N_3BF_2O_4$

Solubility: good in DMF, DMSO, DCM

Quality control: NMR ¹H, HPLC-MS (95%)

Storage conditions: Storage: 12 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: 585 ϵ , L·mol $^{-1}$ ·cm $^{-1}$: 104000 Emission maximum, nm: 594 Fluorescence quantum yield: 0.83 CF_{260} : 0.06 CF_{280} : 0.04

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