

Lumiprobe Corporation

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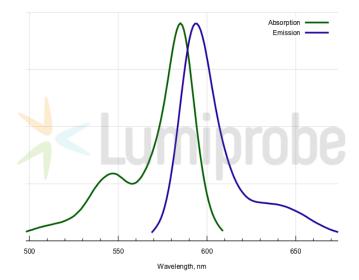
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BDP® 581/591 DBCO

http://www.lumiprobe.com/p/bdp-581-591-dbco

BDP 581/591 is a borondipyrromethene dye with a conjugated olefinic system. It can be used either as a regular fluorophore, or as a probe for the detection of reactive oxygen species (ROS); after oxidation, its fluorescence moves to the green part of the spectrum.

This is a version of the dye containing cyclooctyne. The DBCO (azodibenzocyclooctyne) moiety can be conjugated with azides yielding stable triazole conjugates.



Ph Ph

Structure of BDP 581/591 DBCO

Absorption and emission spectra of BDP 581/591

General properties

Appearance: dark purple solid

Mass spec M+ increment: 692.3 Molecular weight: 692.60 Molecular formula: $C_{43}H_{39}N_4BF_2O_2$

Solubility: good in DMF, DMSO, DCM

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: 585 ϵ , L·mol⁻¹·cm⁻¹: 104000 Emission maximum, nm: 594 Fluorescence quantum yield: 0.83

BDP® is a trademark of Lumiprobe