

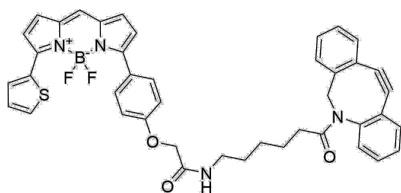
BDP TR DBCO

<http://www.lumiprobe.com/p/bdp-tr-dbc>

BDP TR is a bright and photostable red-fluorescent dye. Because of its hydrophobic properties, BDP TR can readily permeate cell membranes and is an excellent fluorophore for staining various lipophilic compounds. This dye is an analog of BODIPY™ TR and similar to ROX by its spectral characteristics.

BDP TR has a long excitation lifetime; besides conventional fluorescence microscopy, it can be used in various fluorescence anisotropy assays.

Being an alternative to alkynes, dibenzocyclooctyne (DBCO) readily reacts with azides in copper-free Click Chemistry reactions, which result in BDP TR-biomolecule conjugates.



Structure of BDP TR DBCO

General properties

Appearance:	copper-violet foam
Molecular weight:	724.63
Molecular formula:	C ₄₂ H ₃₅ N ₄ BF ₂ O ₃ S
Solubility:	good in DMF, DMSO, DCM
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.

Spectral properties

Excitation/absorption maximum, nm:	589
ε, L·mol ⁻¹ ·cm ⁻¹ :	60000
Emission maximum, nm:	616
Fluorescence quantum yield:	0.9
CF ₂₆₀ :	0.15
CF ₂₈₀ :	0.19

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