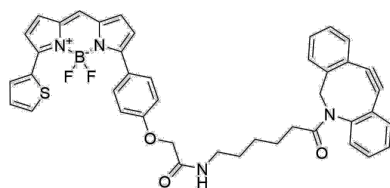


BDP TR DBCO

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

BDP TR is a bright and photostable red fluorescent dye. This dye has similar to ROX by spectral characteristics. BDP TR has a long excitation lifetime; thus, it can be used in various fluorescence anisotropy assays besides conventional fluorescence microscopy.

As an alternative to alkynes, dibenzocyclooctyne (DBCO) readily reacts with azides via copper-free click reaction (SPAAC), resulting in BDP TR-biomolecule conjugates.



Structure of BDP TR DBCO

General properties

Appearance:	copper-violet powder
Molecular weight:	724.63
Molecular formula:	$C_{42}H_{35}N_4BF_2O_3S$
Solubility:	good in DMF, DMSO, DCM
Quality control:	NMR 1H , HPLC-MS (95%)
Storage conditions:	Storage: 24 months after receipt at $-20^\circ C$ 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 , $L \cdot mol^{-1} \cdot cm^{-1}$:	60000
Emission maximum, nm:	616
Fluorescence quantum yield:	0.9

BDP® is a trademark of Lumiprobe