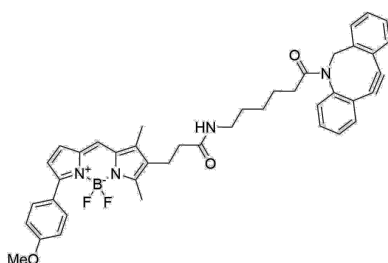


## BDP TMR DBCO

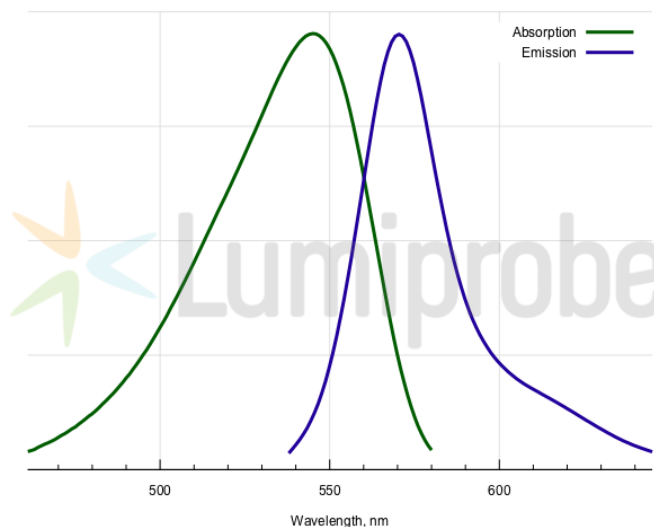
<http://www.lumiprobe.com/p/bdp-tmr-dbco>

BDP TMR is a bright high quantum yield fluorophore for the TAMRA channel. BDP TMR is not sensitive to pH changes within the range from 4 to 10 and can be used for staining lipophilic compounds due to its hydrophobic properties.

BDP TMR DBCO enters into bioorthogonal click chemistry reactions with molecules that contain an azide fragment. The reaction is promoted by ring strain and undergoes without toxic Cu (I) catalysts.



**Structure of BDP TMR DBCO**



**Absorption and emission spectra of BDP TMR**

### General properties

Appearance:	red powder with luster
Molecular weight:	698.61
Molecular formula:	C <sub>42</sub> H <sub>41</sub> N <sub>4</sub> BF <sub>2</sub> O <sub>3</sub>
Solubility:	good in alcohols, DMF, DMSO
Quality control:	NMR <sup>1</sup> 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:	542
ε, L·mol <sup>-1</sup> ·cm <sup>-1</sup> :	55000
Emission maximum, nm:	574
Fluorescence quantum yield:	0.64

BDP® is a trademark of Lumiprobe