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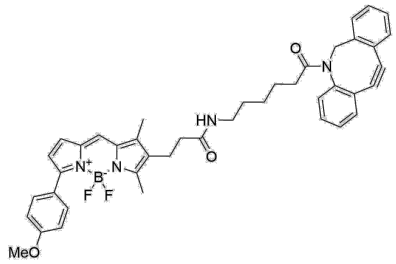
BDP® TMR DBCO

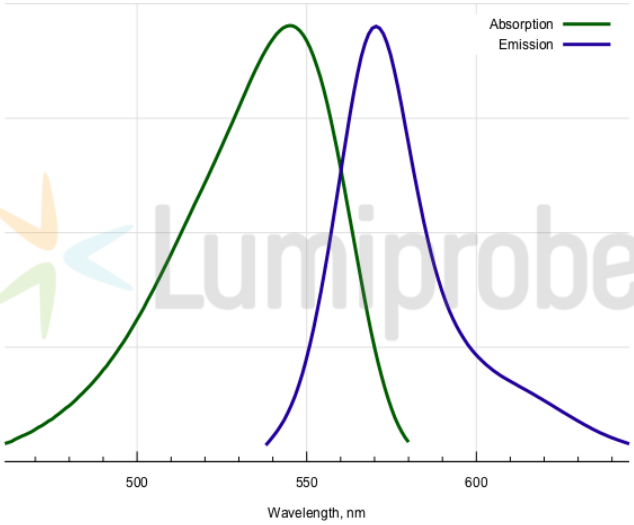
http://www.lumiprobe.com/p/bdp-tmr-dbco

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:	$C_{42}H_{41}N_4BF_2O_3$
Solubility:	good in alcohols, DMF, DMSO
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.
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:	542
ε, $L \cdot mol^{-1} \cdot cm^{-1}$:	55000
Emission maximum, nm:	574
Fluorescence quantum yield:	0.64