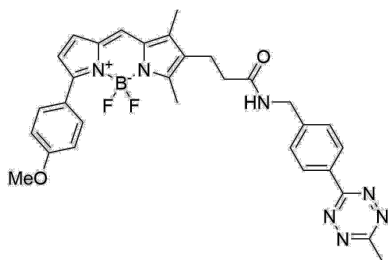


BDP TMR tetrazine

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

BDP TMR, an orange-fluorescent dye. Because of its small size and relatively long excitation lifetime, this fluorophore can be used for studying ligand-receptor interactions based on fluorescence polarization.

A tetrazine fragment in the molecule can rapidly react with trans-cyclooctene and cyclopropene derivatives in [4+2] cycloaddition reactions, which result in stable biomolecule-fluorophore conjugates.



Structure of BDP TMR tetrazine

General properties

Appearance:	red powder
Molecular weight:	581.42
Molecular formula:	C ₃₁ H ₃₀ N ₇ BF ₂ O ₂
Solubility:	good in alcohols, DMF, DMSO
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:	542
ε, L·mol ⁻¹ ·cm ⁻¹ :	55000
Emission maximum, nm:	574
Fluorescence quantum yield:	0.64
CF ₂₆₀ :	0.16
CF ₂₈₀ :	0.16

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