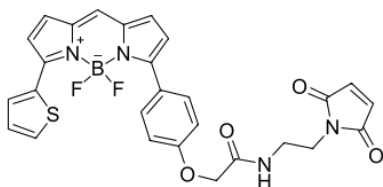


BDP TR maleimide

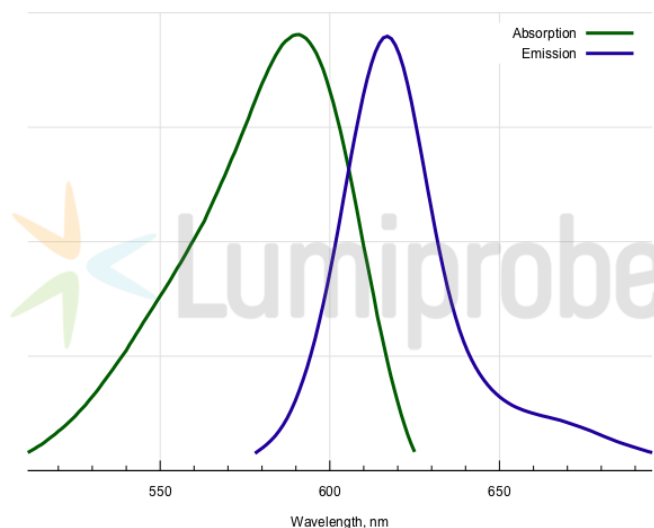
<http://www.lumiprobe.com/p/bodipy-tr-maleimide>

BDP TR is a borondipyrromethene dye with absorption and emission similar to ROX. Compared to ROX, its fluorescence quantum yield and brightness is much higher.

Maleimide can be conjugated with thiol groups of proteins and peptides.



Structure of BDP TR maleimide



Absorption and emission spectra of BDP TR

General properties

Appearance:	dark colored solid
Mass spec M+ increment:	545.1
Molecular weight:	546.35
Molecular formula:	C ₂₇ H ₂₁ N ₄ BF ₂ O ₄ S
Solubility:	good in DCM, 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. Desiccate.

Spectral properties

Excitation/absorption maximum, nm:	589
ε, L·mol ⁻¹ ·cm ⁻¹ :	69000
Emission maximum, nm:	616
Fluorescence quantum yield:	0.9
CF ₂₆₀ :	0.15
CF ₂₈₀ :	0.19