

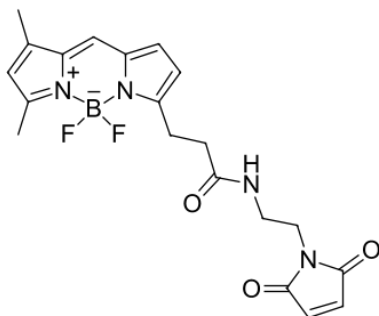
BDP FL maleimide

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

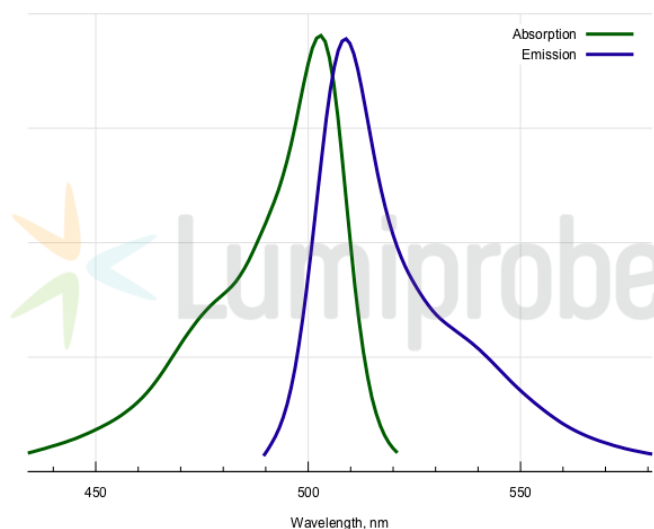
Thiol reactive BDP FL maleimide is a reactive dye for protein labeling.

BDP FL is a borondipyrromethene dye which has absorption and fluorescence spectra similar to fluorescein (FAM). However, this dye exhibits very high photostability. It is non-charged, and has low molecular weight. Its brightness is similar to fluorescein, R110 and xanthene dye derivatives.

This fluorophore is ideal for fluorescent microscopy and many other applications. The fluorophore can substitute fluorescein for almost any application, and it is compatible with any FAM-capable fluorescent instrumentation.



Structure of BODIPY FL maleimide



Absorption and emission spectra of BDP FL

General properties

Appearance:	orange solid
Mass spec M+ increment:	414.1
Molecular weight:	414.21
CAS number:	773859-49-7
Molecular formula:	C ₂₀ H ₂₁ BF ₂ N ₄ O ₃
Solubility:	Good in organic solvents (DMF, DMSO), limited in water
Quality control:	NMR 1H, 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:	503
ϵ , L·mol ⁻¹ ·cm ⁻¹ :	92000
Emission maximum, nm:	509
Fluorescence quantum yield:	0.97
CF ₂₆₀ :	0.015
CF ₂₈₀ :	0.027

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