

Lumiprobe Corporation

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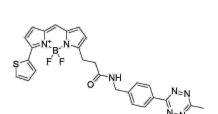
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BDP 558/568 tetrazine

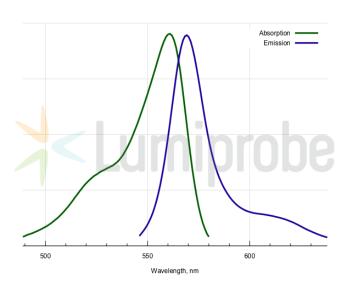
http://www.lumiprobe.com/p/bdp-558-568-tetrazine

BDP 558/568 has a high molar extinction coefficient and high quantum yield; this is a bright fluorophore and an alternative to BDP 558/568 and Cy3™ because of similar spectral properties. BDP 558/568 can be used in two-photon microscopy; it has a long excited-state lifetime, so it can be used in fluorescence polarization assay.

BDP 558/568 tetrazine is a convenient reagent for producing fluorescent conjugates of proteins, nucleic acids, and other biomolecules by tetrazine-trans-cyclooctene (TCO) ligation. This cycloaddition reaction runs relatively rapidly without metal catalysts.



Structure of BDP 558/568 tetrazine



Absorption and emission spectra of BDP 558/568

General properties

Appearance: brown powder Molecular weight: 529.37 Molecular formula: $C_{z_6}H_{z_2}N_7BF_2OS$

IUPAC name: 3-(5,5-difluoro-7-(thiophen-2-yl)-5H-5l4,6l4-dipyrrolo[1,2-c:2',1'-f][1,3,2]diazaborinin-3-yl)-N-(4-(6-methyl-1,2,4,5-tetrazin-3-yl)benzyl)propanamide

Solubility: very soluble in DMSO and DMF Quality control: NMR ¹H, HPLC-MS (95%)

0.68

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.

Spectral properties

Excitation/absorption 561

maximum, nm:

 ϵ , L·mol⁻¹·cm⁻¹: 84400 Emission maximum, 569 nm:

Fluorescence quantum yield:

CF₂₆₀: 0.00 CF₂₈₀: 0.07

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