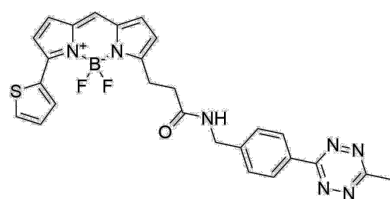


## BDP® 558/568 tetrazine

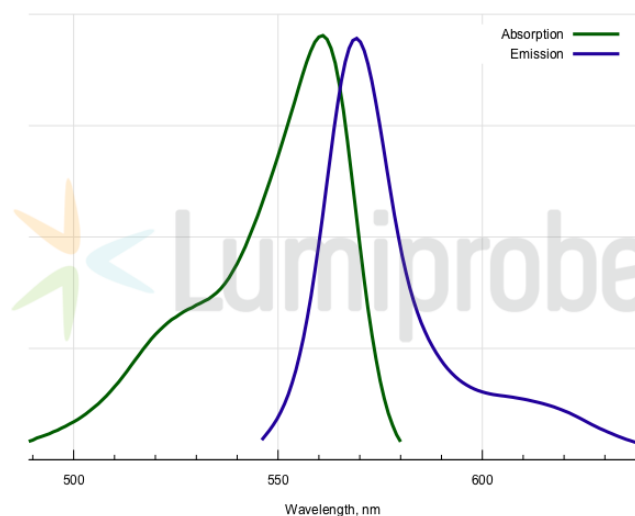
<http://www.lumiprobe.com/p/bdp-558-568-tetrazine>

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 <sub>26</sub> H <sub>22</sub> N <sub>6</sub> BF <sub>2</sub> OS
IUPAC name:	3-(5,5-difluoro-7-(thiophen-2-yl)-5H-5i4,6i4-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 <sup>1</sup> 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.
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:	561
ε, L·mol <sup>-1</sup> ·cm <sup>-1</sup> :	84400
Emission maximum, nm:	569
Fluorescence quantum yield:	0.68
CF <sub>260</sub> :	0.00
CF <sub>280</sub> :	0.07

BDP® is a trademark of Lumiprobe. Cy™ is a trademark of Cytiva.