

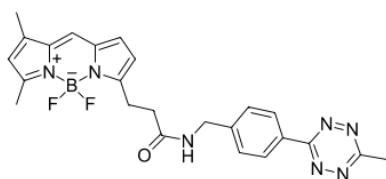
## BDP FL tetrazine

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

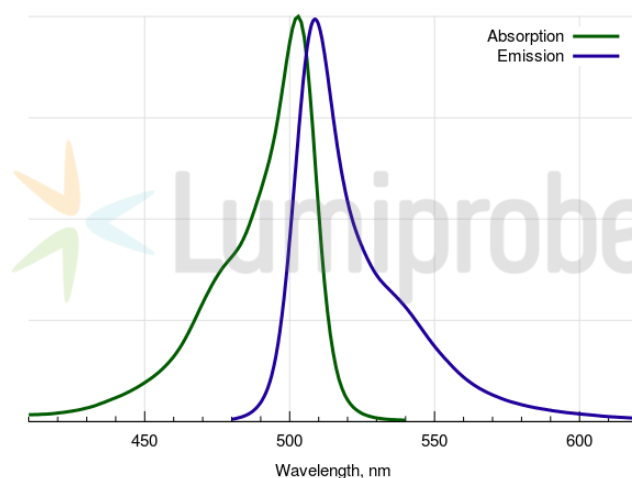
Inverse electron demand Diels-Alder reaction (IEDDA) with tetrazines is a promising tool for the conjugation of biomolecules. The reaction takes place between tetrazine as an electron acceptor heterodiene, and a strained dienophile, such as trans-cyclooctene, cyclopropene, or some cyclooctynes.

Methyltetrazine provides greater stability in buffers than unsubstituted tetrazine. The rate of its reaction with cycloalkenes still beats almost all other conjugation reaction rates by a factor of magnitudes.

BDP FL is a bright dye for fluorescein (FAM) channel. Using BDP FL tetrazine, the dye can be conjugated with molecules bearing strained olefins.



**Structure of BDP FL tetrazine**



**Absorption and emission spectra of BODIPY FL**

### General properties

Appearance:	red crystalline solid
Mass spec M+ increment:	447.2
Molecular weight:	475.3
CAS number:	2042193-77-9
Molecular formula:	C <sub>24</sub> H <sub>24</sub> N <sub>7</sub> BF <sub>2</sub> O
Solubility:	good in DCM, DMSO, 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. Desiccate.

### Spectral properties

Excitation/absorption maximum, nm:	503
ε, L·mol <sup>-1</sup> ·cm <sup>-1</sup> :	92000
Emission maximum, nm:	509
Fluorescence quantum yield:	0.97
CF <sub>260</sub> :	0.015
CF <sub>280</sub> :	0.027

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