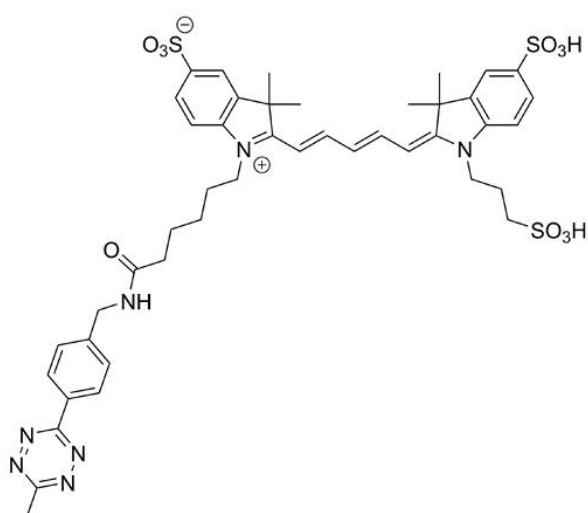




# CY5 METHYLTETRAZINE

**SKU:** CCT-1019



## DESCRIPTION

Methyltetrazine-activated Cy5 probe that reacts with TCO-containing compounds via an Inverse-Electron-Demand Diels-Alder reaction to form a stable covalent bond and does not require Cu-catalyst or elevated temperatures. The inverse-electron demand Diels-Alder cycloaddition reaction of TCO with tetrazines is a bioorthogonal reaction that possesses exceptional kinetics ( $k > 800 \text{ M}^{-1} \text{ s}^{-1}$ ) and selectivity. Such excellent reaction rate constants are unparalleled by any other bioorthogonal reaction pair described to date.

## SPECIFICATIONS

**CAS Number**

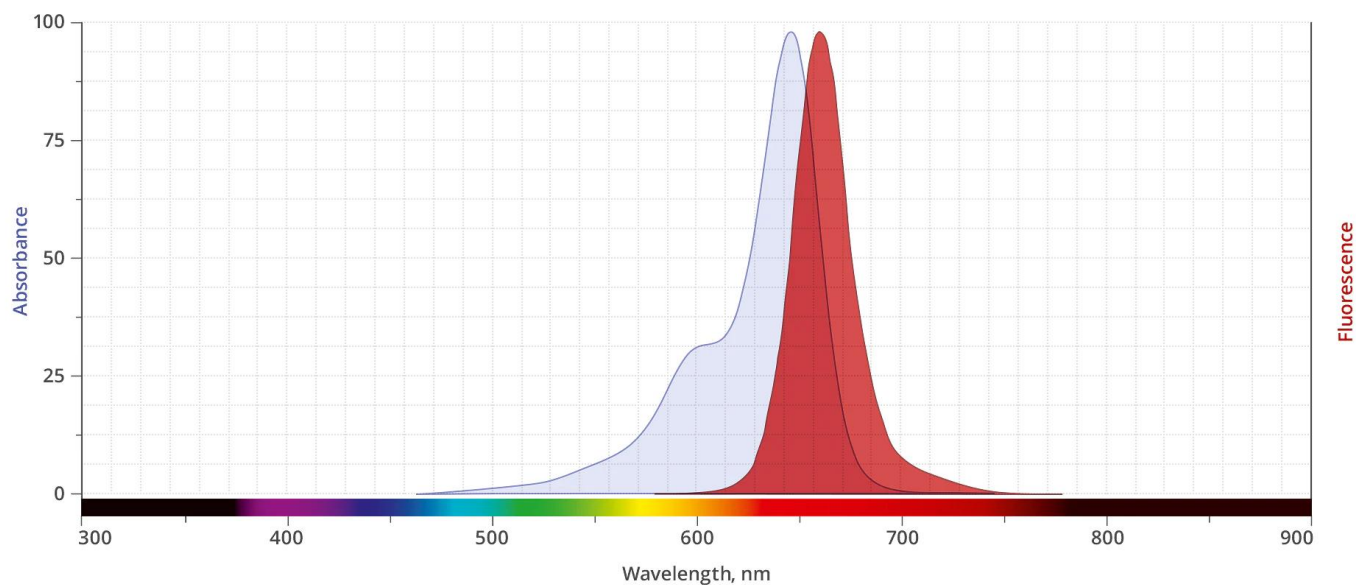
N/A

**For research use only. Not intended for therapeutic or diagnostic use in animals or humans.**



|                                    |                                                        |
|------------------------------------|--------------------------------------------------------|
| <b>Molecular Weight</b>            | 934.1                                                  |
| <b>Appearance</b>                  | Blue solid                                             |
| <b>Extinction Coefficient</b>      | 250,000                                                |
| <b>Purity</b>                      | >95% (HPLC)                                            |
| <b>Unit Size</b>                   | 1 mg, 5 mg, 25 mg                                      |
| <b>Solubility</b>                  | Water, DMSO, DMF, MeOH                                 |
| <b>Storage Instructions</b>        | -20°C. Desiccate                                       |
| <b>Spectrally Similar Dyes</b>     | Alexa Fluor® 647, Atto™ 647, CF® 647 Dye, DyLight® 649 |
| <b>Laser Line</b>                  | 633 or 635 nm                                          |
| <b>Excitation/Emission Maximum</b> | 649/671 nm                                             |
| <b>Shipping Conditions</b>         | Ambient temperature                                    |
| <b>Shipping Instructions</b>       | Ambient temperature                                    |

## ABS/EM SPECTRA



## SELECTED REFERENCES

1. Kang, D., *et al.* (2021). Bioorthogonal Retro-Cope Elimination Reaction of N, N-

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Dialkylhydroxylamines and Strained Alkynes. *J Am Chem Soc.*, **143** (**15**), 5616-5621.  
[PubMed]

- [Safety Data Sheet](#)
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Cy5 Methyltetrazine

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