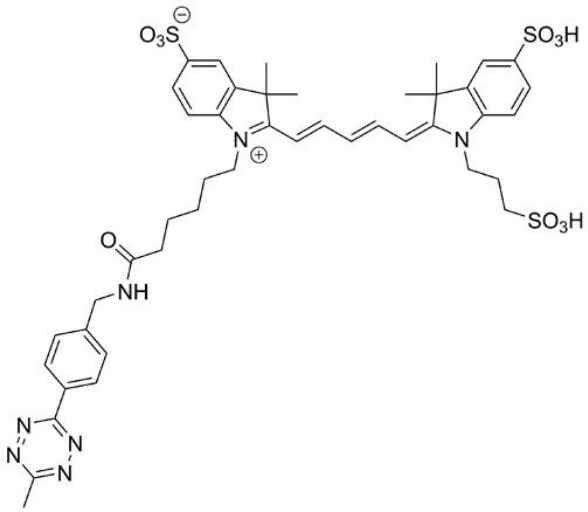
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CY5 METHYLTETRAZINE

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 $M^{-1\ -1}$) and selectivity. Such excellent reaction rate constants are unparalleled by any other bioorthogonal reaction pair described to date.

SPECIFICATIONS

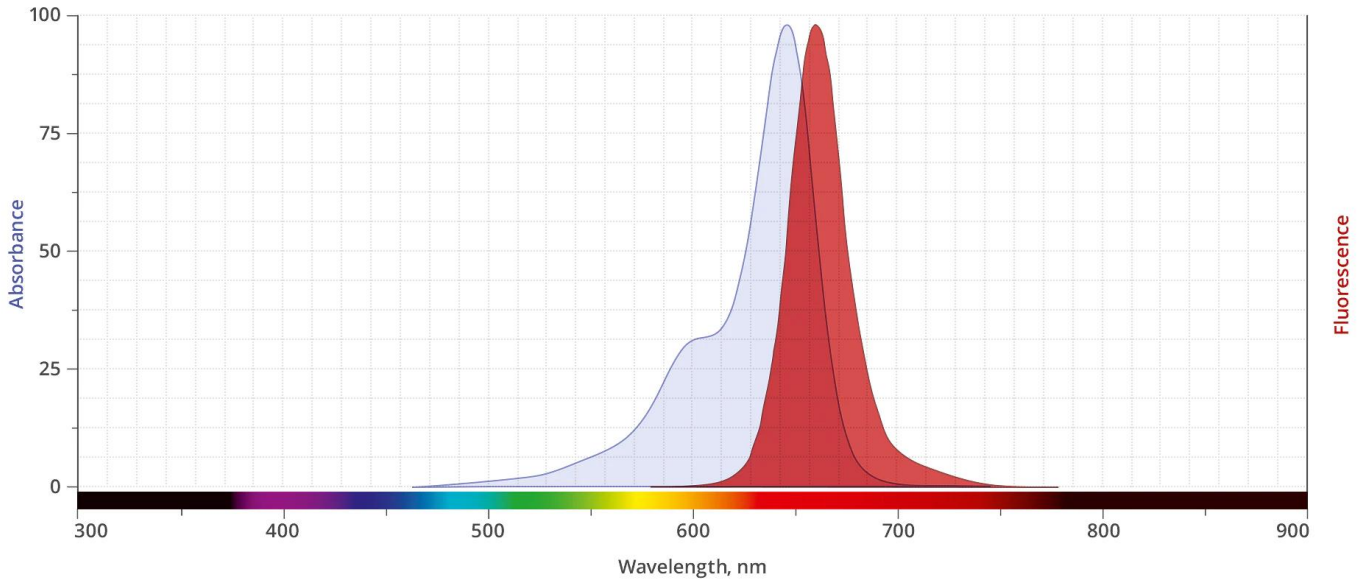
CAS Number	N/A

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

ABS/EM SPECTRA



SELECTED REFERENCES

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

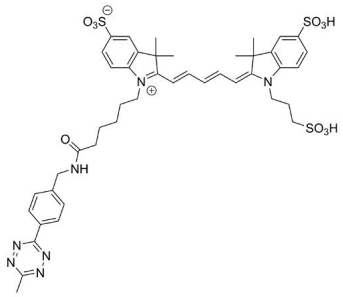
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Dialkylhydroxylamines and Strained Alkynes. *J Am Chem Soc.*, **143 (15)**, 5616-5621. [PubMed]

DOCUMENTS

- Safety Data Sheet
- Download CoA
- Datasheet

GALLERY IMAGES



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