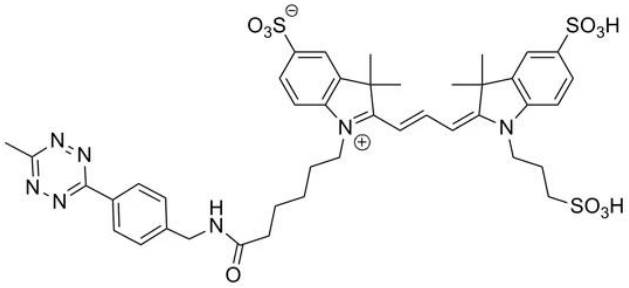
www.vectorlabs.com
Email: customerservice@vectorlabs.com
Telephone: (650) 697-3600

CY3 METHYLTETRAZINE

SKU: CCT-1018



DESCRIPTION

Methyltetrazine-activated Cy3 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. described to date.

Cy®3 is a bright, water-soluble, and pH insensitive orange-fluorescent dye that can be excited using the 532 nm or 555 nm laser line and visualized with TRITC (tetramethylrhodamine) filter sets. Cy3 conjugates give less background than TAMRA and most other commonly used fluorescent dyes.

Cy®Dye is a trademark of GE Healthcare

SPECIFICATIONS

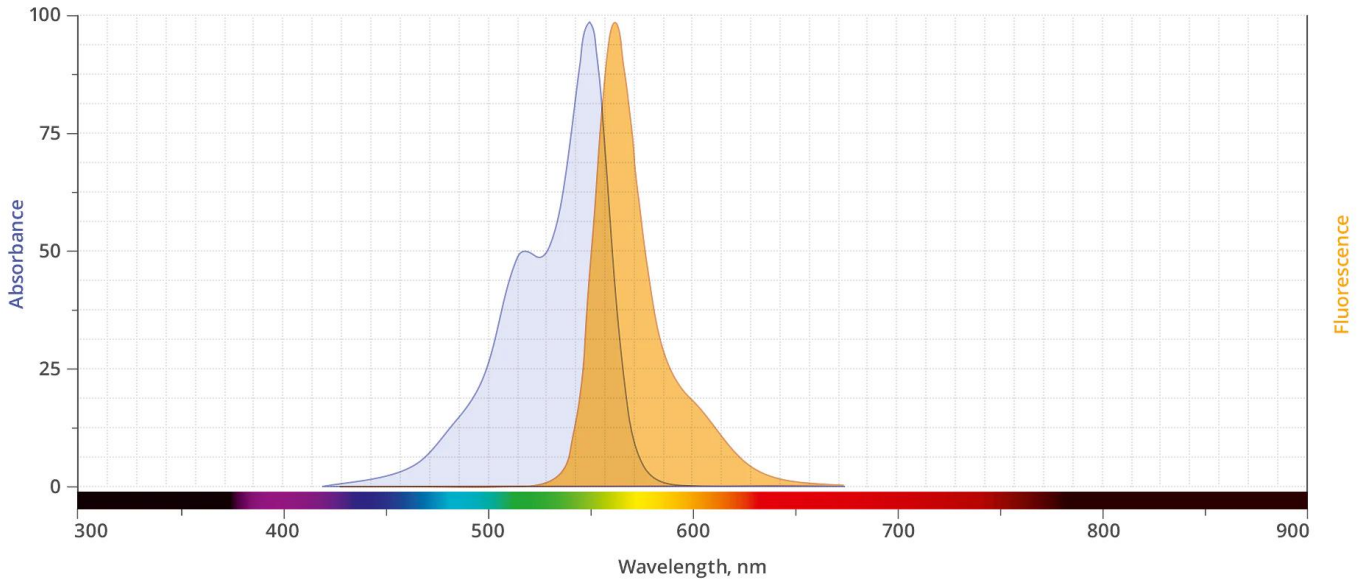
CAS Number	1676067-48-3

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

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Molecular Weight	908.07
Appearance	Red solid
Extinction Coefficient	150,000
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® 555, Atto™ 555, CF™ 555 Dye, DyLight™549
Laser Line	532 or 555 nm
Excitation/Emission Maximum	553/569 nm
Shipping Conditions	Ambient temperature
Shipping Instructions	Ambient temperature

ABS/EM SPECTRA



SELECTED REFERENCES

1. Marquard, A.N., *et al.* (2020). Expanding the Scope of Antibody Rebridging with New

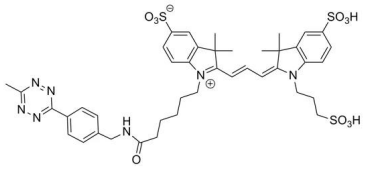
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Pyridazinedione-TCO Constructs. *Bioconjug Chem.*, **31(6)**, 1616-23. [PubMed]

DOCUMENTS

- Safety Data Sheet
- Download CoA
- Datasheet

GALLERY IMAGES



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