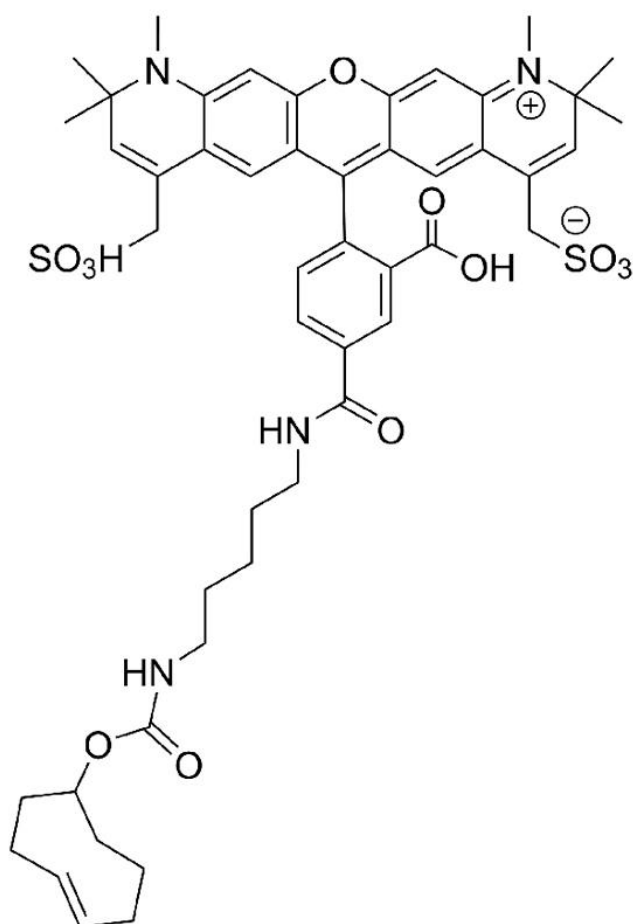




AZDYE 594 TCO

SKU: CCT-1359



DESCRIPTION

AZDye™ 594 TCO reacts with tetrazines to produce a stable, covalent linkage, also referred to as the inverse-electron demand Diels-Alder cycloaddition reaction. This reaction is extremely fast ($k > 800 \text{ M}^{-1} \text{ s}^{-1}$), selective, biocompatible, and does not require Cu-catalyst or elevated

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temperatures. Such excellent reaction rate constants are unparalleled by any other bioorthogonal reaction pair described to date.

AZDye™ 594 is bright, water-soluble, and pH-insensitive from pH 4 to pH 10 red-fluorescent dye with absorption and emission maxima at 590 and 617 nm, respectively. It can be used with the 561 nm and 594 nm laser lines. AZDye™ 594 dye conjugated to a variety of antibodies, peptides, proteins, tracers, and amplification substrates often used for generation of stable signal in imaging and flow cytometry. AZDye™ 594 dye structurally is identical to Alexa Fluor® 594. Its absorption/emission spectra is a perfect match to spectra of many other fluorescent dyes based on sulfonated rhodamine core, including DyLight® 594, CF® 594 Dye, ATTO-594 and Alexa Fluor® 594.

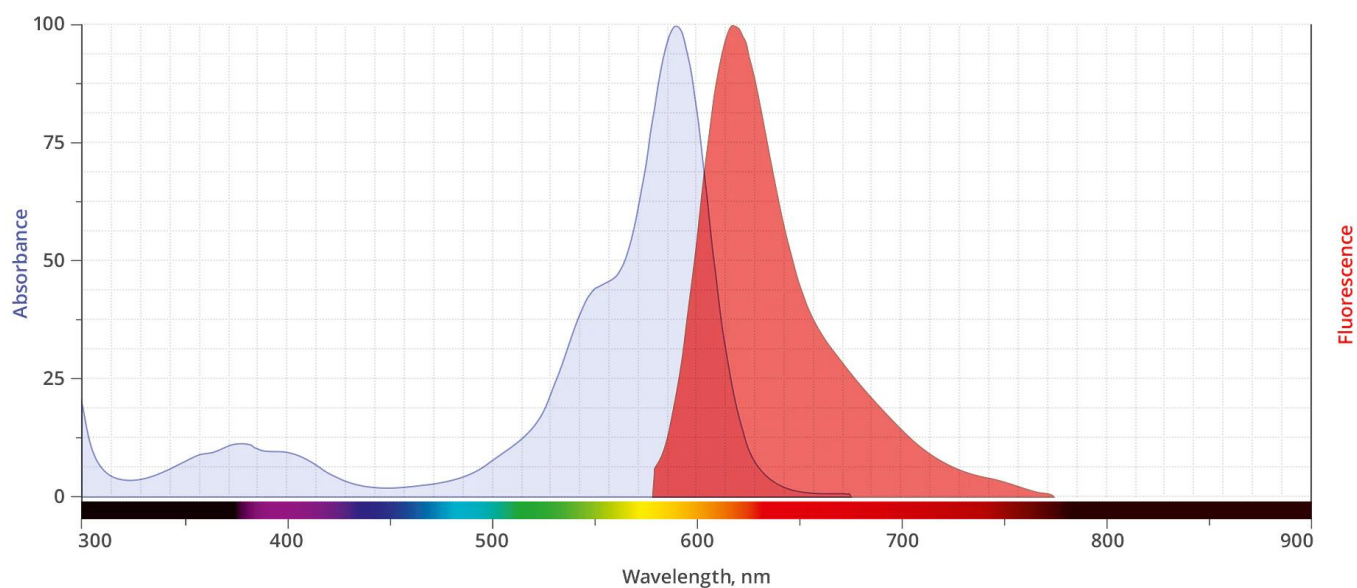
DyLight® and Alexa Fluor® are registered trademarks of Thermo Fisher Scientific. CF® Dye is a registered trademark of Biotium Inc.

SPECIFICATIONS

CAS Number	N/A
Molecular Weight	959.14
Appearance	Dark blue solid
Extinction Coefficient	92,000
Unit Size	1 mg, 5 mg, 25 mg
Solubility	Water, DMSO, DMF, MeOH
Storage Instructions	-20°C. Desiccate
Spectrally Similar Dyes	Alexa Fluor® 594, CF™ 594
Excitation/Emission Maximum	590/617 nm
Shipping Conditions	Dry ice
Shipping Instructions	Dry ice

ABS/EM SPECTRA

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DOCUMENTS

- [Safety Data Sheet](#)
- [Datasheet](#)

GALLERY IMAGES

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AZDye 594 TCO

<https://vectorlabs.com/products/azdye-594-tco/>