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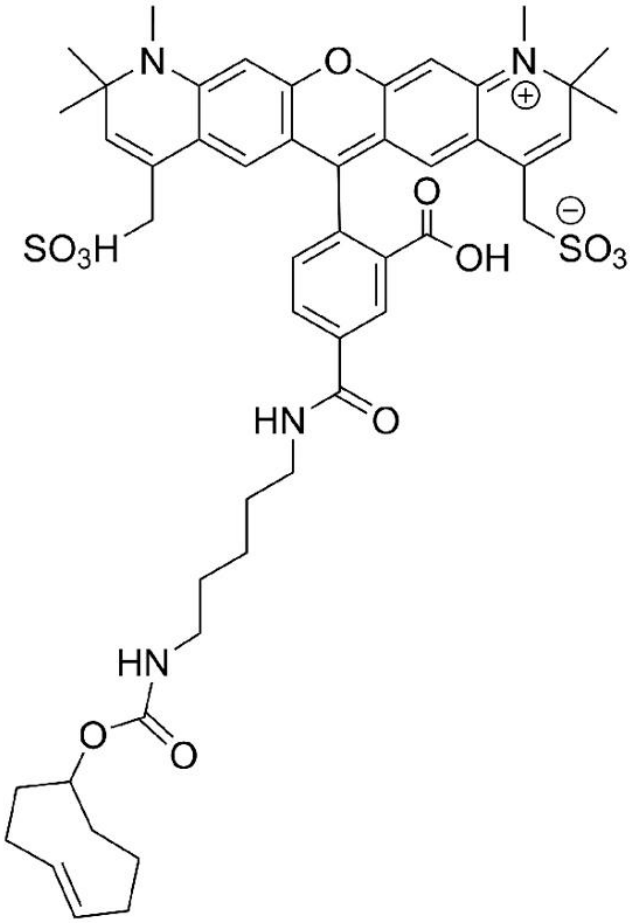
AZDYE 594 TCO

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 ($k > 800\ M^{-1}\ s^{-1}$), selective, biocompatible, and does not require Cu-catalyst or elevated 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

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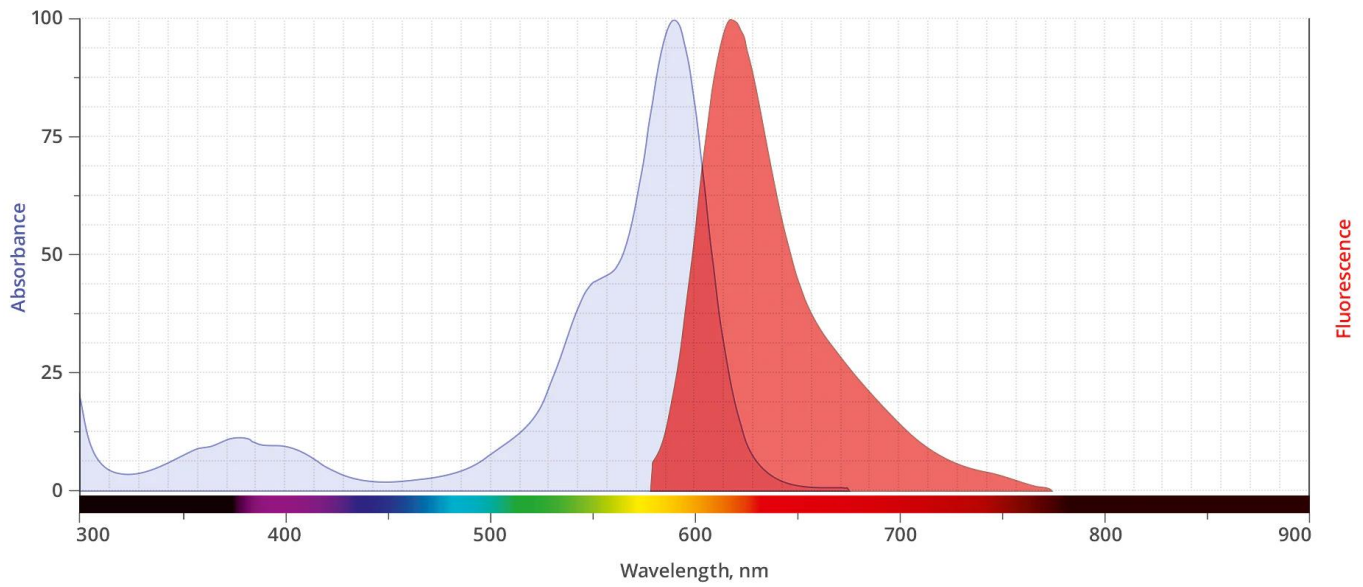
with absorption and emission maxima at 590 and 617 nm, respectively. It can be used with the 561 nm and 594 nm laser lines. AZDye™ 594 dye conjugated to a variety of antibodies, peptides, proteins, tracers, and amplification substrates often used for generation of stable signal in imaging and flow cytometry. 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.



Abs/Em Spectra

Specifications

Unit Size	1 mg, 5 mg, 25 mg
Abs/Em Maxima	590/617 nm
Extinction Coefficient	92,000
Spectrally Similar Dyes	Alexa Fluor® 594, CF™ 594
Molecular weight	959.14
CAS	N/A
Solubility	Water, DMSO, DMF, MeOH
Appearance	Dark blue solid

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Storage Conditions	-20°C. Desiccate
Shipping Conditions	Dry ice
