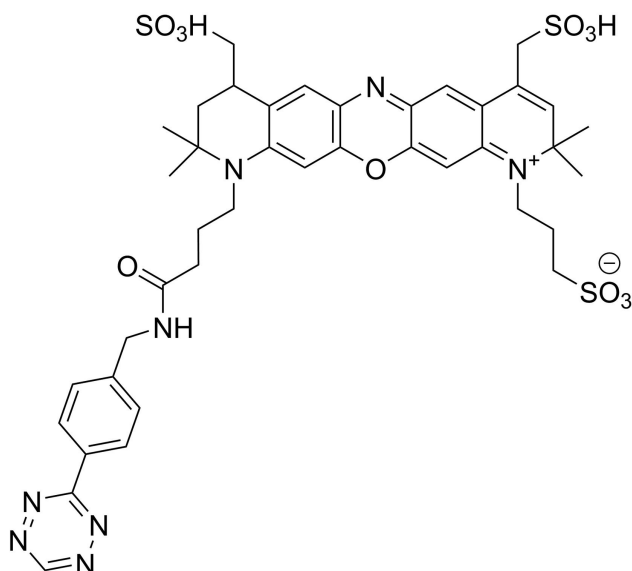




Email: customerservice@vectorlabs.com

Telephone: [\(650\) 697-3600](tel:6506973600)

SKU: CCT-1505

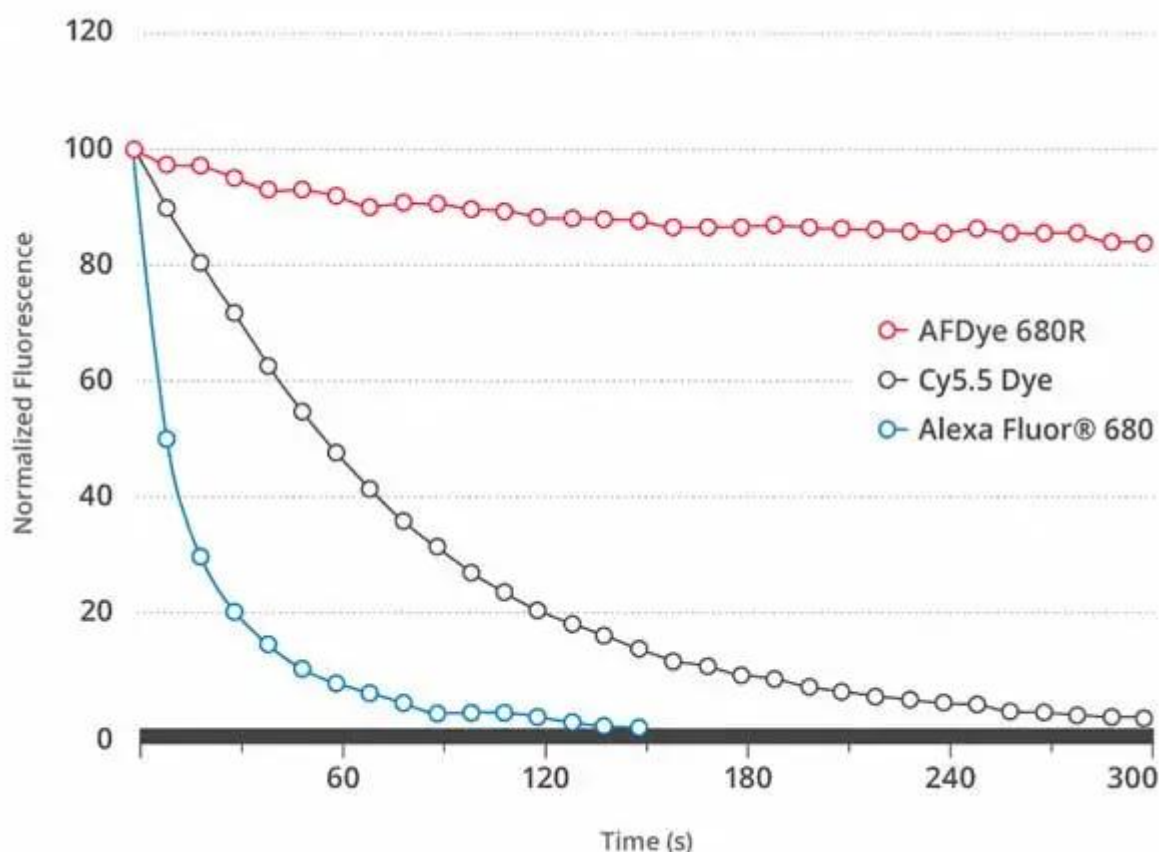
Tetrazines demonstrate exceptionally fast cycloaddition kinetics (up to $30\,000\text{ M}^{-1}\text{ s}^{-1}$) with trans-cyclooctenes (TCO) as the dienophile, the fastest kinetics ever reported for any bioorthogonal reaction. In addition, inverse-Electron-Demand Diels-Alder reaction of tetrazines trans-cyclooctene forms a stable covalent bond and does not require Cu-catalyst or elevated temperatures.

AZDye 680R is a bright and photostable near IR dye that emits fluorescence at about 700 nm in the borderline spectral region between far-red and near-IR. AZDye 680R dye is water soluble and pH-insensitive from pH 4 to pH 10. AZDye 680R is a rhodamine-based dye, and like rhodamine dyes in general, it is very bright and exceptionally photostable (Figure 1). The superior photostability and excellent brightness of AZDye 680R makes this dye an ideal for confocal microscopy, single molecule imaging and other applications that demand both brightness and photostability.

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

AZDye 680R Tetrazine

<https://vectorlabs.com/products/azdye-680r-tetrazine/>



SPECIFICATIONS

CAS Number	N/A
Molecular Weight	911.03
Appearance	Blue solid
Extinction Coefficient	135,000
Purity	>95% (HPLC)
Unit Size	1 mg, 5 mg, 25 mg
Solubility	Water, DMSO, DMF
Storage Instructions	-20°C. Desiccate
Spectrally Similar Dyes	Alexa Fluor® 680, CF® 680R
Laser Line	633 or 635 nm
Excitation/Emission Maximum	685/708 nm
Shipping Conditions	Ambient temperature

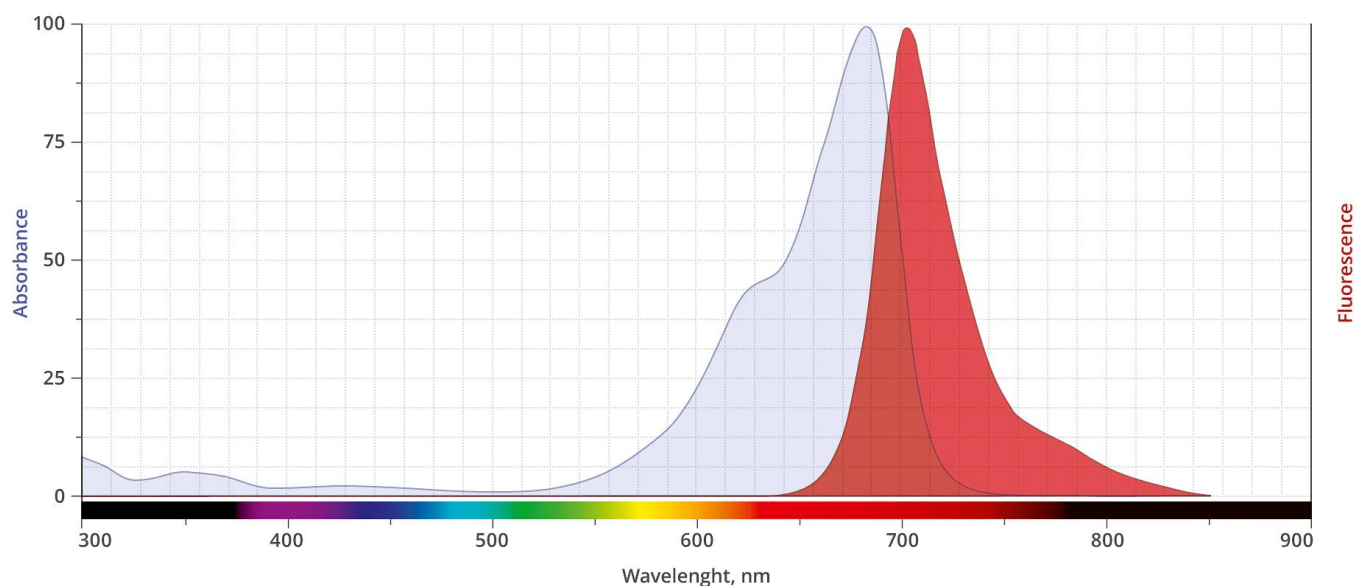
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Shipping Instructions

Ambient temperature

ABS/EM SPECTRA



DOCUMENTS

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

GALLERY IMAGES

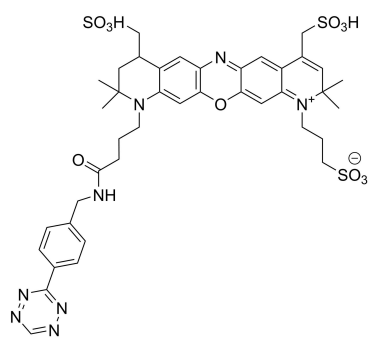
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