www.vectorlabs.com
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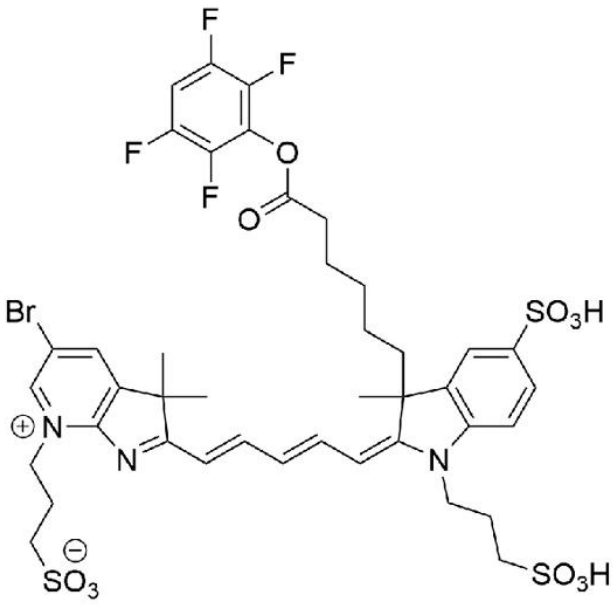
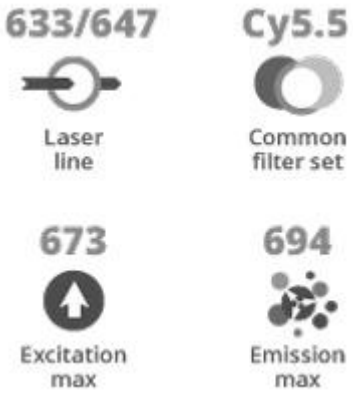
AZDYE 680 TFP ESTER

SKU: FP-1792



DESCRIPTION



AZDye 680 is a bright and photostable near-IR dye that is spectrally identical to Alexa Fluor®

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

680. AZDye 680 is often used for small animal imaging applications in the 700 nm wavelength and provides excellent clearance profiles in animals. Flow cytometry is another common application for this dye. AZDye 680 ideally suited for the 633 nm laser line. This near-IR fluorescent dye is water soluble and pH-insensitive from pH 4 to pH 10. AZDye 680 molecules can be attached to proteins at high molar ratios without significant self-quenching, leading to brighter conjugates and more sensitive detection. The long wavelength emission allows for detection in complex samples with auto-fluorescent background signals.

TFP (tetrafluorophenyl) ester is an amine-reactive activated ester that reacts with primary amines of biomolecules in the same way as the succinimidyl ester (SE or NHS-ester) to form a stable amide bond. The major advantage of TFP esters over the succinimidyl ester is much improved resistance to spontaneous hydrolysis during conjugation reactions resulting in more efficiency and better reproducible labeling of biopolymers. TFP esters are stable for several hours at the basic pH typically used for reactions–far outlasting succinimidyl esters.

SPECIFICATIONS

Molecular Weight	1006.89
Extinction Coefficient	185,000 cm-1M-1
Reactivity	Primary amine
Unit Size	1 mg, 5 mg, 25 mg, 100 mg
Solubility	Water, DMSO, DMF
Storage Instructions	-20°C.
Spectrally Similar Dyes	Alexa Fluor® 680, DyLight® 680, IRDye® 680
Excitation/Emission Maximum	678/701 nm
Shipping Conditions	Ambient temperature
Shipping Instructions	Ambient temperature

ABS/EM SPECTRA

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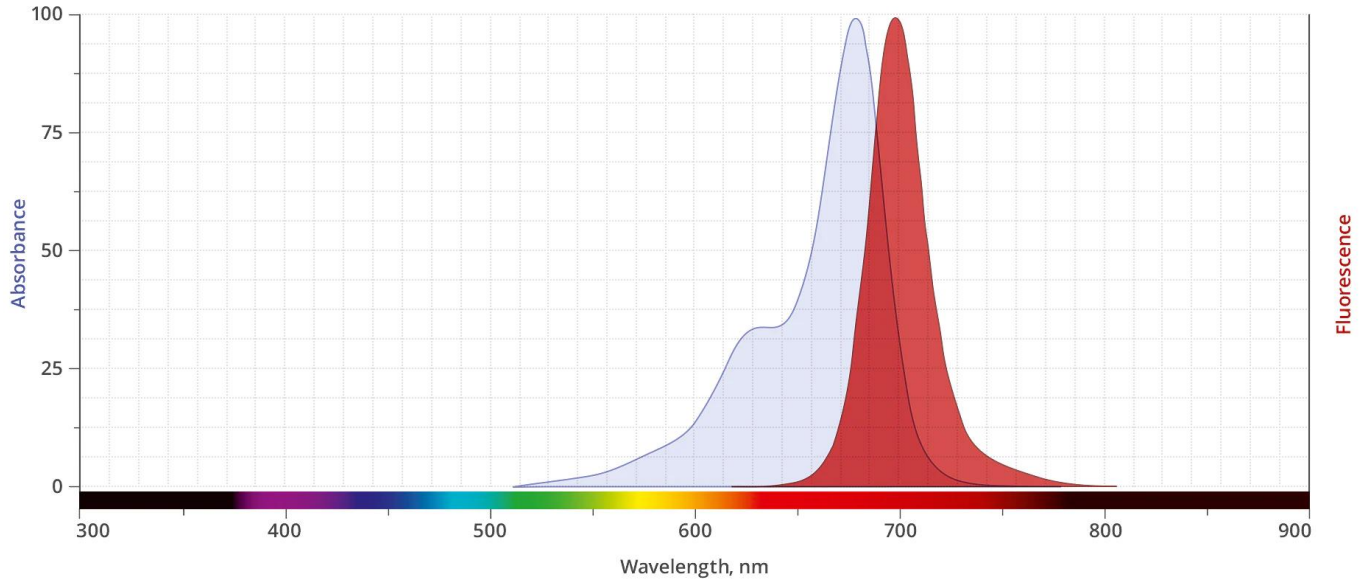
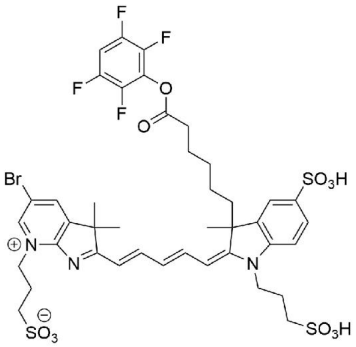


DOCUMENTS

- Safety Data Sheet
- Datasheet

GALLERY IMAGES



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