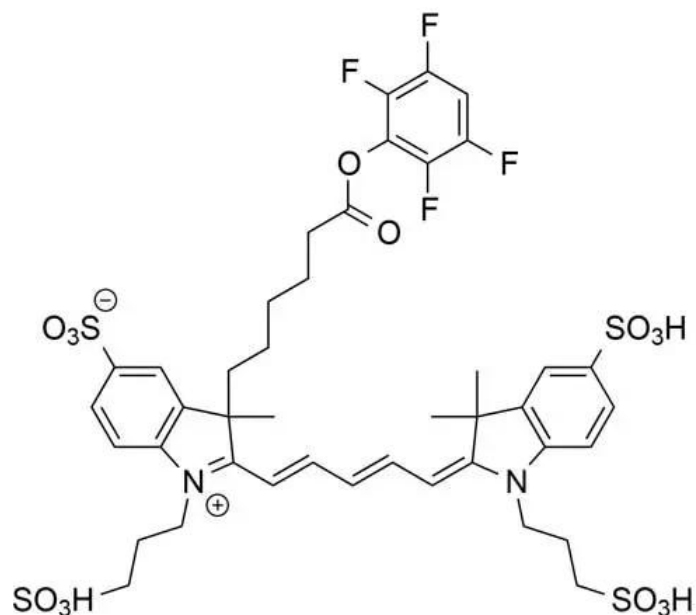




AZDYE 647 TFP ESTER

SKU: FP-1129



DESCRIPTION

633/647



Laser
line

Cy5



Common
filter set

650



Excitation
max

665



Emission
max

AZDye™ 647 is a water-soluble, bright, far-red fluorescent dye with excitation ideally suited for the 633 nm or 647 nm laser lines. A significant advantage to using long wavelength dyes such

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as Cy5 or AZDye™ 647 dye over other fluorophores is the low autofluorescence of biological specimens in this region of the spectrum.

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.

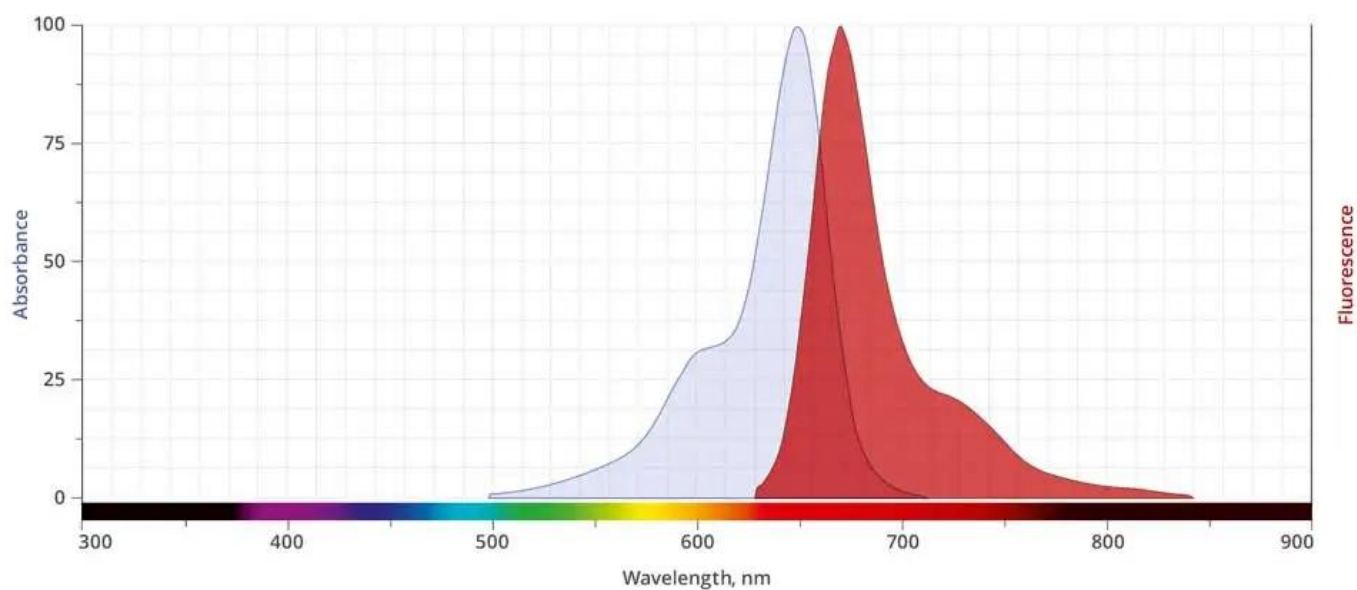
AZDye™ 647 is structurally similar to Alexa Fluor® 647, and spectrally is almost identical to Cy5 Dye, Alexa Fluor® 647, CF® 647 Dye, or any other Cyanine5 based fluorescent dyes.

SPECIFICATIONS

Molecular Weight	1310.64
Molecular Formula	C60H91F4N5O14S4
Chemical Formula	C60H91F4N5O14S4
Extinction Coefficient	270,000 cm ⁻¹ M ⁻¹
Reactivity	Primary amine
Solubility	Water, DMSO, DMF
Storage Instructions	-20°C.
Spectrally Similar Dyes	Cy5, DyLight® 649
Excitation/Emission Maximum	647 nm / 663 nm
Shipping Instructions	Ambient temperature

ABS/EM SPECTRA

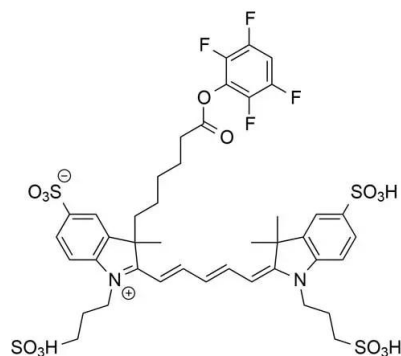
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DOCUMENTS

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

GALLERY IMAGES



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