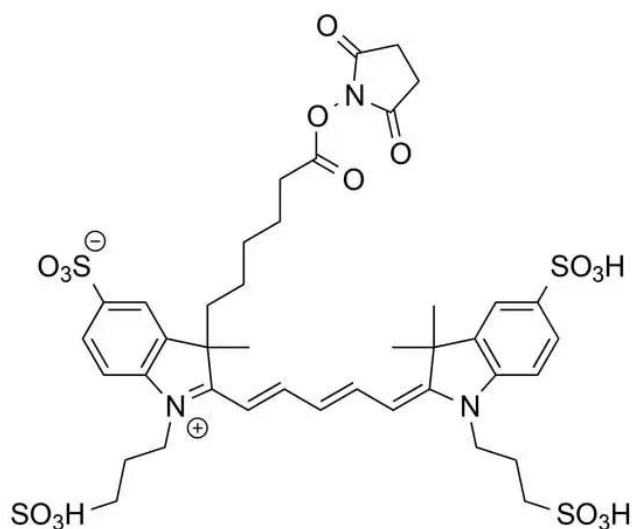




AZDYE 647 NHS ESTER

SKU: FP-1121



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 as Cy5 or AZDye™ 647 dye over other fluorophores is the low autofluorescence of biological

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specimens in this region of the spectrum.

The NHS ester (or succinimidyl ester) is the most popular amine reactive group for labeling with the primary amines of proteins (Lys), amine-modified oligonucleotides, and other amine-containing molecules. Proteins can be labeled with AZDye™ 647 NHS Ester at high molar ratios without significant self-quenching, leading to brighter conjugates and more sensitive detection. AZDye™ 647 conjugates are often a probe of choice for detection of low abundance targets.

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	1259.66
Molecular Formula	C ₅₈ H ₉₄ N ₆ O ₁₆ S ₄
Chemical Formula	C ₅₈ H ₉₄ N ₆ O ₁₆ S ₄
Extinction Coefficient	270,000 cm ⁻¹ M ⁻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	Cy5, DyLight® 649
Excitation/Emission Maximum	649 nm / 666 nm
Shipping Conditions	Ambient temperature
Shipping Instructions	Ambient temperature

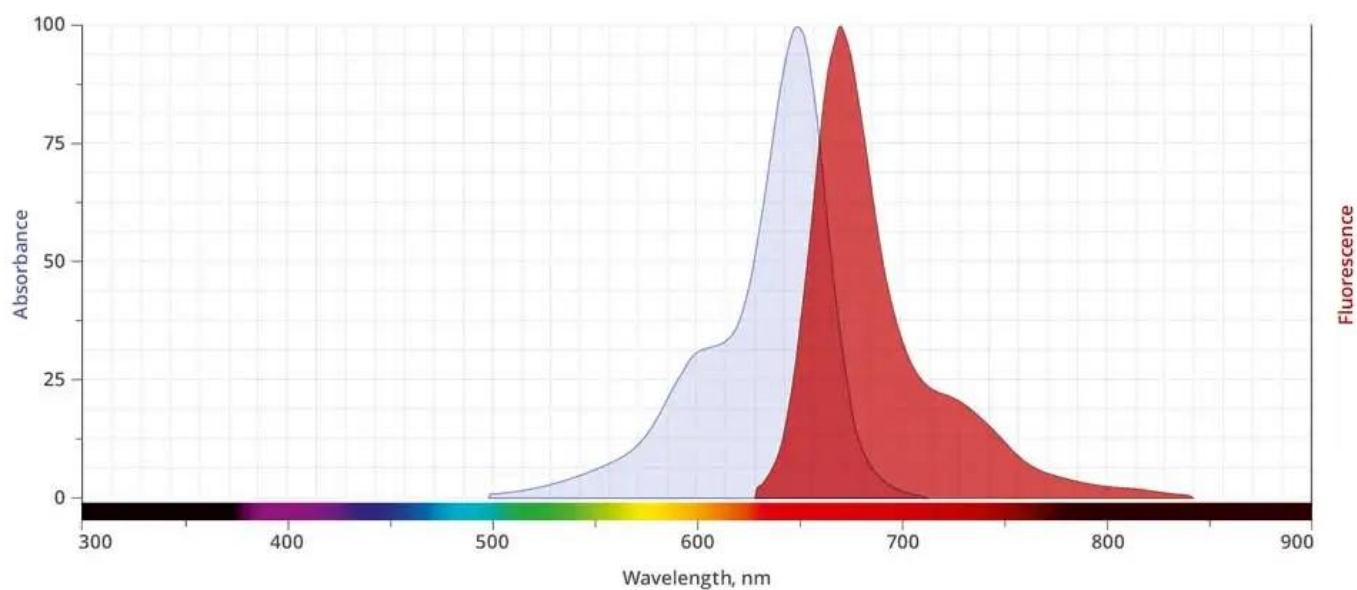
ABS/EM SPECTRA

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

[illegible]

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AZDye 647 NHS Ester

<https://vectorlabs.com/products/azdye-647-nhs-ester/>