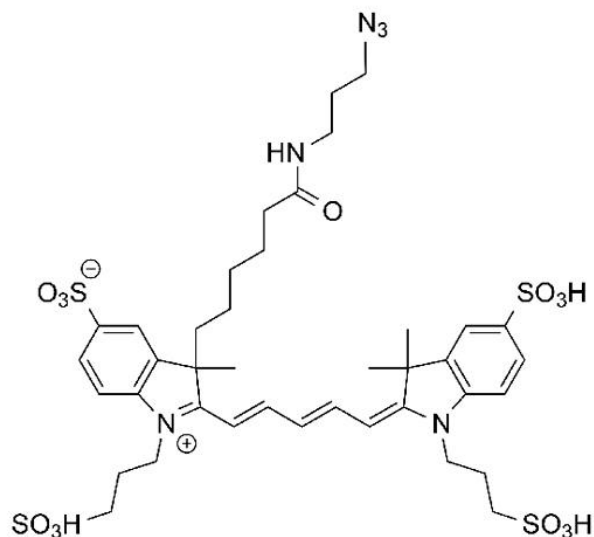


AZDYE 647 AZIDE

SKU: CCT-1299



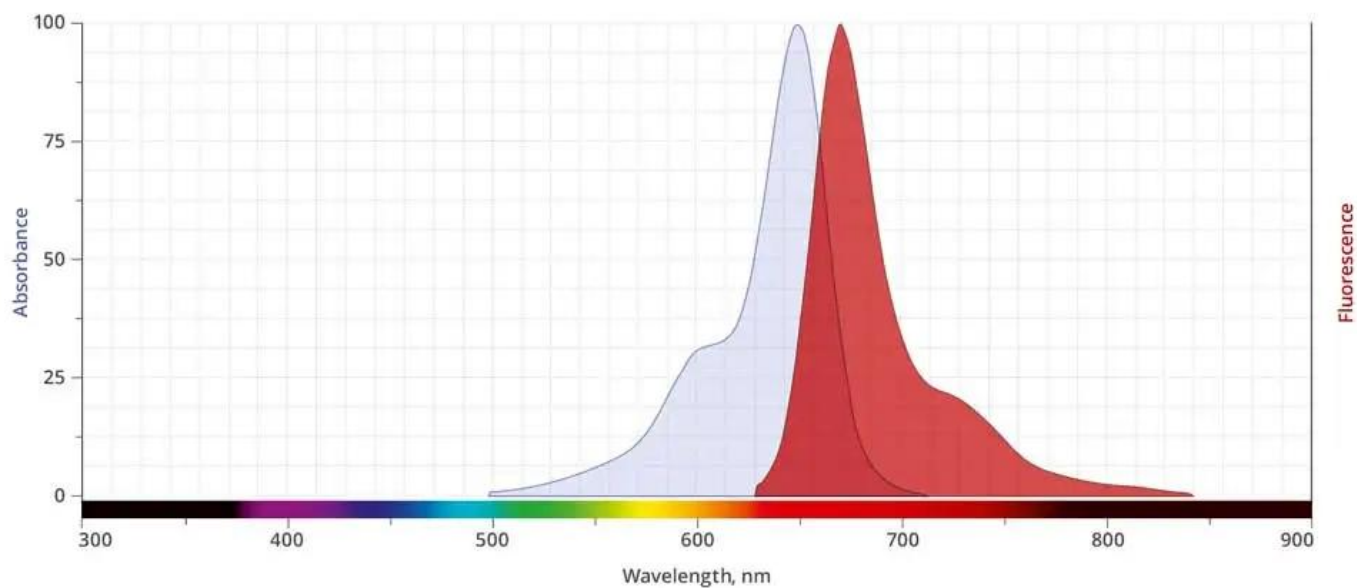
Description

AZDye™ 647 Azide is a water-soluble, pH-insensitive from pH 4 to pH 10, far-red-fluorescent probe 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 over other fluorophores is the low autofluorescence of biological specimens in this region of the spectrum.

AZDye™ 647 Azide can be reacted with terminal alkynes via a copper-catalyzed click reaction (CuAAC). It also reacts with strained cyclooctyne via a copper-free “click chemistry” reaction to form a stable triazole and does not require Cu-catalyst or elevated temperatures. The brightness and photostability of this dye are best suited to direct imaging 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. AZDye™ 647 Azide can be used as a less expensive alternative to Alexa Fluor® 647 Azide.

For research use only. Not intended for animal or human therapeutic or diagnostic use.



Abs/Em Spectra

Specifications

Unit Size	1 mg, 5 mg, 25 mg
Abs/Em Maxima	648/671 nm
Extinction Coefficient	270,000
Spectrally Similar Dyes	Alexa Fluor® 647, CF® 647, DyLight® 649
Molecular weight	941.11 (protonated)
CAS	N/A
Solubility	Water, DMSO, DMF
Appearance	Blue solid
Storage Conditions	-20°C. Desiccate
Shipping Conditions	Ambient temperature

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