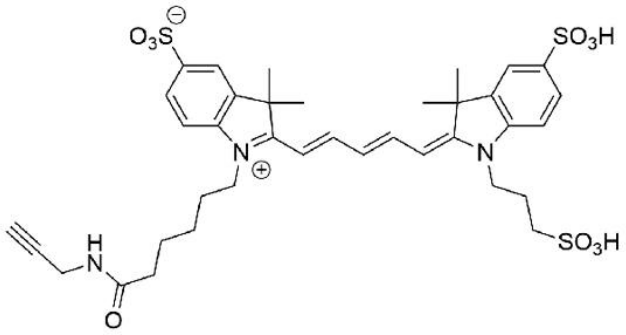
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CY5 ALKYNE

SKU: CCT-TA116



DESCRIPTION

The far-red fluorescent Cy5 Alkyne can be reacted with azides via a copper-catalyzed click reaction (CuAAC) forming a stable triazole and does not require elevated temperatures. This far-red fluorescent probe is water-soluble, and its fluorescence is pH-insensitive from pH 4 to pH 10. Its excitation peak is ideally suited for the 633 nm or 647 nm laser lines and its absorption and emission spectra are almost identical to those of Alexa Fluor® 647, CF® 647 Dye, or any other Cyanine5 based fluorescent dyes.

Cy5 Alkyne can be reacted with azides (N3) via a copper-catalyzed click reaction (CuAAC) forming 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.

Cy5 Alkyne 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. Its absorption and emission spactra are almost identical to those of Alexa Fluor® 647, CF® 647 Dye, or any other Cyanine5 based fluorescent dyes.

This is sulfonated dye is also known as sulfo-Cyanine5.

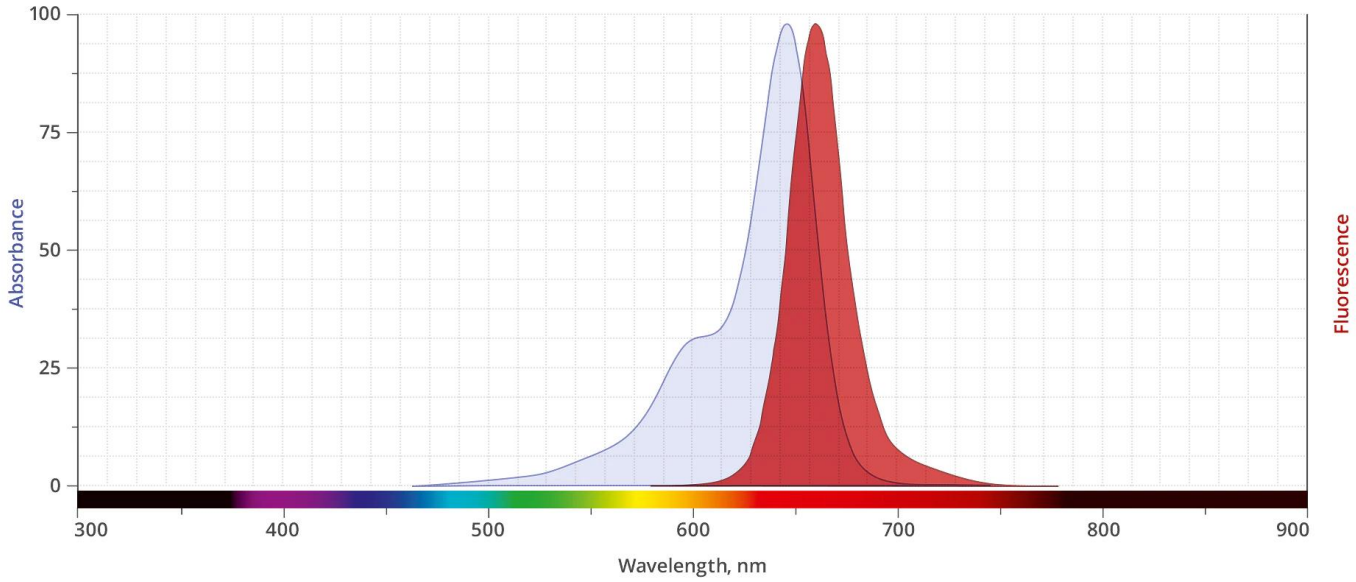
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SPECIFICATIONS

CAS Number	N/A
Molecular Weight	990.34
Molecular Formula	C49H75N5O10S3
Appearance	Blue solid
Chemical Formula	C49H75N5O10S3
Extinction Coefficient	250,000
Purity	>95% (HPLC)
Unit Size	1 mg, 5 mg, 25 mg, 100 mg
Solubility	Water, DMSO, DMF
Storage Instructions	-20°C. Desiccate
Spectrally Similar Dyes	Alexa Fluor® 647, CF™ 647 Dye, DyLight™649
Laser Line	633 or 635 nm
Excitation/Emission Maximum	647 nm / 664 nm
Shipping Conditions	Ambient temperature
Shipping Instructions	Ambient temperature

ABS/EM SPECTRA



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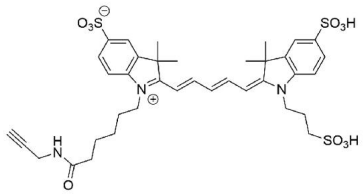
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2. Schamber, M. R., *et al.* (2022). Conformational fingerprinting of allosteric modulators in metabotropic glutamate receptor 2. *Elife*, 11:e78982. [PubMed]
3. Schamber, M. R., *et al.* (2022). Mechanism of sensitivity modulation in the calcium-sensing receptor via electrostatic tuning. *Nat Commun.*, **13 (1)**, 2194. [PubMed]
4. Zhang, C., *et al.* (2016). In vivo metabolic labeling of sialoglycans in the mouse brain by using a liposome-assisted bioorthogonal reporter strategy. *Proc Natl Acad Sci U S A.*, **113 (19)**, 5173-8. [PubMed]

DOCUMENTS

- Safety Data Sheet
- Download CoA
- Datasheet

GALLERY IMAGES



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