

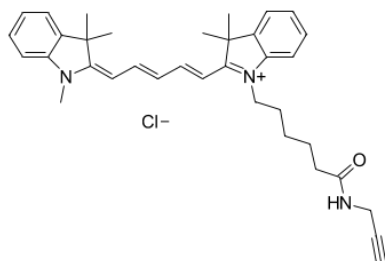
Cyanine5 alkyne

<http://www.lumiprobe.com/p/cy5-alkyne>

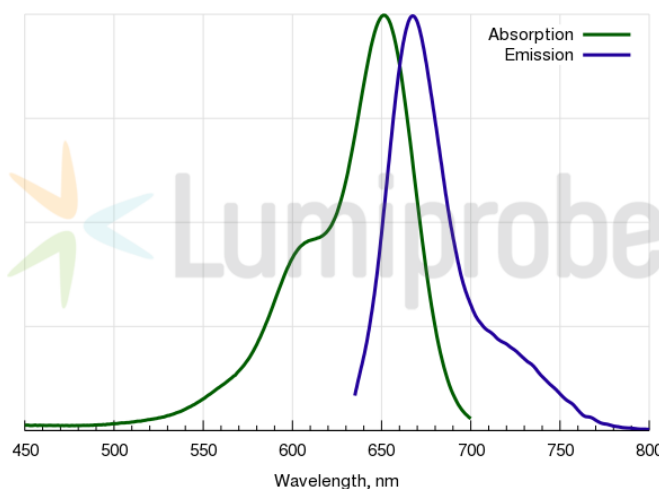
Cyanine5 is an analog of Cy5®, deeply colored and photostable fluorophore. Cyanine5 alkyne can be attached to various molecules via click chemistry reaction with azides.

This alkyne is non-water soluble, but it can be dissolved in DMF or DMSO before reaction and added to an aqueous reaction mixture. With our [labeling protocol](#), the labeling reaction is very efficient, and high-yielding.

Various substrates bearing azides can be used for the labeling, including azido-labeled biomolecules, polymers, and solid surfaces.



Structure of Cyanine5 alkyne



Absorbance and emission spectra of Cyanine5

General properties

Appearance:	dark blue powder
Molecular weight:	556.18
CAS number:	1223357-57-0
Molecular formula:	C ₃₅ H ₄₂ ClN ₃ O
Solubility:	good in dichloromethane, DMF, DMSO, alcohols, very poorly soluble in water (200 mg/L = 0.4 mM)
Quality control:	NMR ¹ H, HPLC-MS (95%)
Storage conditions:	Storage: 24 months after receipt at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Avoid prolonged exposure to light.

Spectral properties

Excitation/absorption maximum, nm:	646
ε, L·mol ⁻¹ ·cm ⁻¹ :	250000
Emission maximum, nm:	662
Fluorescence quantum yield:	0.2
CF ₂₆₀ :	0.03
CF ₂₈₀ :	0.04

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