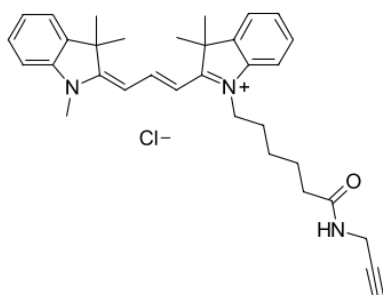


## Cyanine3 alkyne

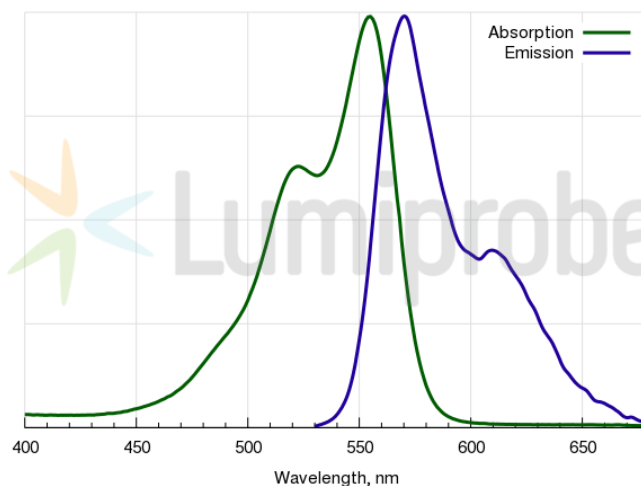
<http://www.lumiprobe.com/p/cy3-alkyne>

Cyanine3 alkyne is a bright and photostable fluorophore for click chemistry, an analog of Cy3®. This dye can be attached to nearly any molecule bearing azide group via copper-catalyzed click-reaction.

This alkyne is non-water-soluble. However, when used with organic co-solvent (DMSO or DMF), this dye can be efficiently attached to water-soluble molecules such as proteins or peptides.



Structure of Cyanine3 alkyne



Cyanine3 absorbance and emission spectra

### General properties

Appearance:	red powder
Molecular weight:	530.14
Molecular formula:	C <sub>33</sub> H <sub>40</sub> ClN <sub>3</sub> O
Solubility:	soluble in organic solvents (DMF, DMSO, dichloromethane), , practically insoluble in water (50 mg/L = 80 uM)
Quality control:	NMR <sup>1</sup> H (95%), HPLC-MS
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. Desiccate.

### Spectral properties

Excitation/absorption maximum, nm:	555
ε, L·mol <sup>-1</sup> ·cm <sup>-1</sup> :	150000
Emission maximum, nm:	570
Fluorescence quantum yield:	0.31
CF <sub>260</sub> :	0.04
CF <sub>280</sub> :	0.09

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