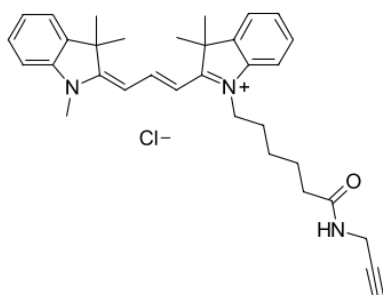


Cyanine3 alkyne

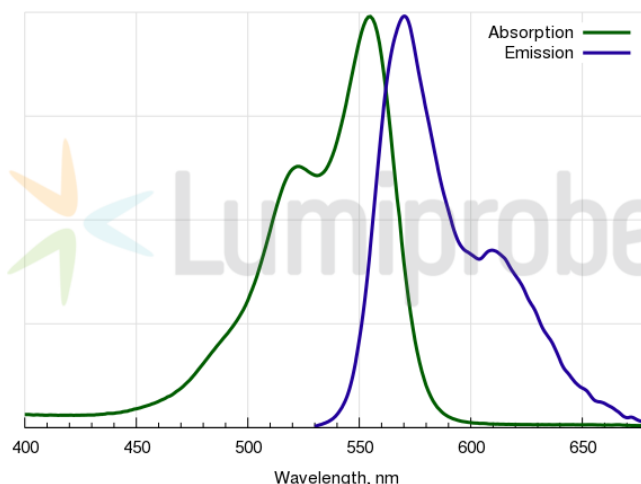
<http://www.lumiprobe.com/p/cy3-alkyne>

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 ₃₃ H ₄₀ ClN ₃ O
Solubility:	soluble in organic solvents (DMF, DMSO, dichloromethane), , practically insoluble in water (50 mg/L = 80 uM)
Quality control:	NMR ¹ 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.
Legal statement:	This Product is offered and sold for research purposes only. It has not been tested for safety and efficacy in food, drug, medical device, cosmetic, commercial or any other use. Supply does not express or imply authorization to use for any other purpose, including, without limitation, in vitro diagnostic purposes, in the manufacture of food or pharmaceutical products, in medical devices or in cosmetic products.

Spectral properties

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

Cy2® is a trademark of GE Healthcare.