

Cyanine3 alkyne

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

Cyanine3 alkyne is a fluorophore ready for the use in Click Chemistry reaction.

With this reagent, bright and photostable Cyanine3 reporter, an analog of Cy3®, can be attached to nearly any molecule bearing azide group.

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.



Cyanine3 alkyne structure



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.

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

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