

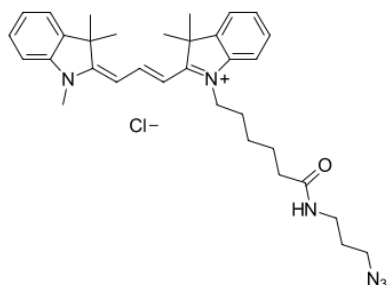
Cyanine3 azide

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

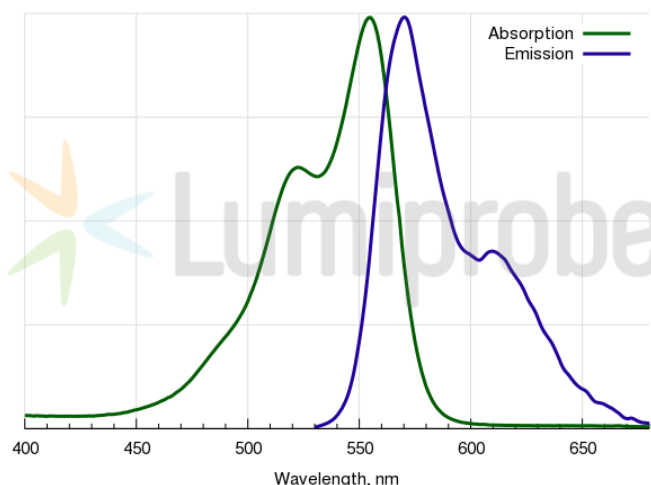
Cyanine3 dye azide for [click chemistry](#), an analog of Cy3® azide. Cy3® is one of the most broadly used fluorophores which can be detected by various fluorometers, imagers, and microscopes. Due to inherently high extinction coefficient, Cyanine3 is also easily detected by naked eye on gels, and in solution. This is non-sulfonated dye which requires organic co-solvent (DMF, DMSO, or other) for efficient labeling in water. Water-soluble version of this reagent is also [available](#).

Product is available both as solid compound, and as 10 mM solution in DMSO which is ready to use in our recommended protocol.

Cyanine3 fluorescent properties are identical to Cy3®, and similar to DyLight 549.



Structure of Cyanine3 azide



Cyanine3 absorbance and emission spectra

General properties

Appearance:	red powder / solution
Molecular weight:	575.19
CAS number:	1167421-28-4 (chloride)
Molecular formula:	C ₃₃ H ₄₃ N ₆ OCl
Solubility:	soluble in organic solvents (DMF, DMSO, dichloromethane), practically insoluble in water (40 mg/L = 60 µM)
Quality control:	NMR ¹ H and 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. 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

Cy® is a trademark of Cytiva.