

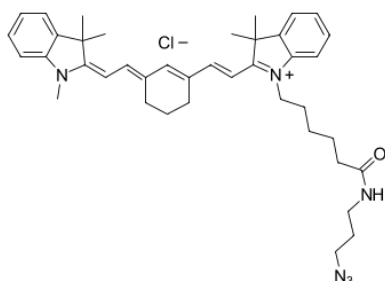
Cyanine7 azide

<http://www.lumiprobe.com/p/cy7-azide>

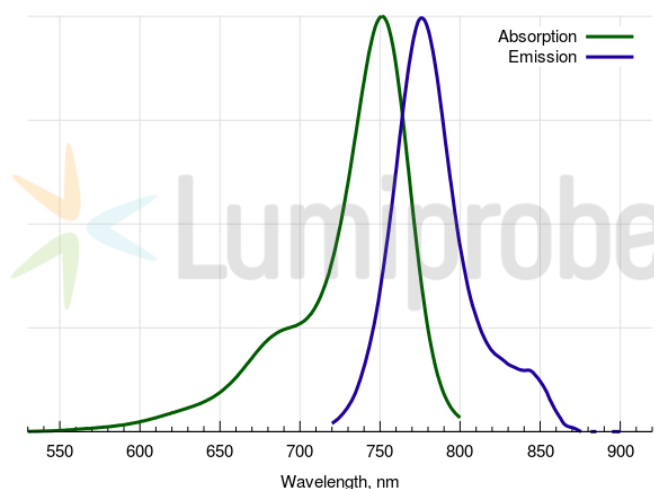
Cyanine7 azide is a near-infrared fluorescent dye azide for click chemistry labeling, an analog of Cy7® azide.

This product can be used for the incorporation of Cyanine7 into various alkynylated biomolecules via click chemistry. Post-synthetic modification of oligonucleotides is also possible with this azide.

Cyclohexane-bridged polymethyne chain allows for 20% increase in quantum yield (compared to parent non-bridged structure).



Cyanine7 azide structure



Cyanine7 absorbance and emission spectra

General properties

Appearance:	green powder / solution
Molecular weight:	667.33
CAS number:	1557149-65-1 (chloride), 1557397-59-7
Molecular formula:	C ₄₀ H ₅₁ ClN ₆ O
Solubility:	soluble in organic solvents (DMSO, DMF, dichloromethane), low solubility in water
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. Desiccate.

Spectral properties

Excitation/absorption maximum, nm:	750
ε, L·mol ⁻¹ ·cm ⁻¹ :	199000
Emission maximum, nm:	773
Fluorescence quantum yield:	0.3
CF ₂₆₀ :	0.022
CF ₂₈₀ :	0.029

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