

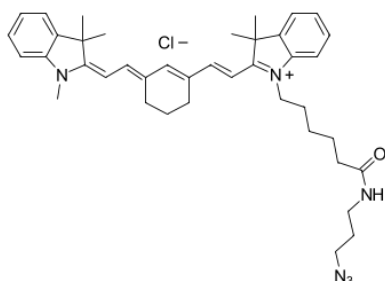
Cyanine7 azide

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

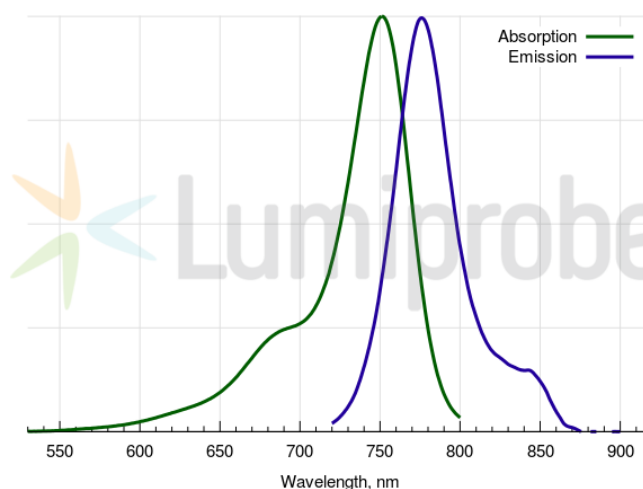
Cyanine7 azide is a near-infrared fluorescent dye azide for click chemistry labeling, an analog of Cy7® azide.

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).



Structure of Cyanine7 azide



Absorbance and emission spectra of Cyanine7

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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