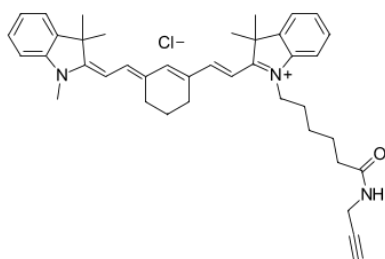


## Cyanine7 alkyne

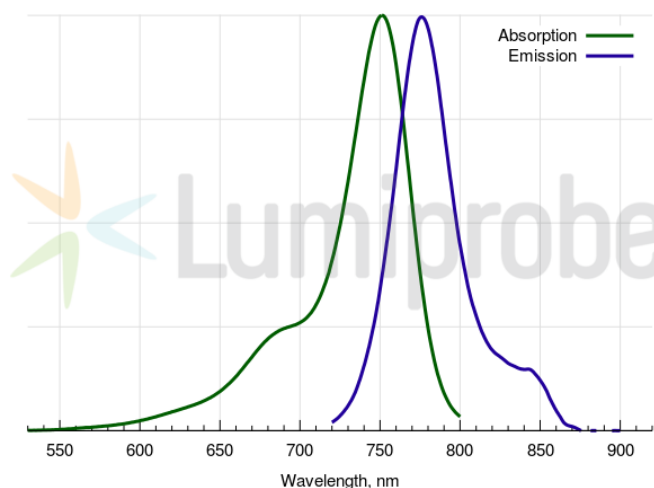
<http://www.lumiprobe.com/p/cy7-alkyne>

Alkyne derivative of Cyanine7, a near infrared fluorophore, analog of Cy7®. The alkyne can be conjugated to a variety of azides via copper-catalyzed click chemistry.

The dye has limited solubility in water, but it can be successfully conjugated in aqueous buffers with the addition of DMSO or DMF.



**Structure of Cyanine7 alkyne**



**Absorbance and emission spectra of Cyanine7**

### General properties

Appearance:	green powder
Mass spec M+ increment:	586.4
Molecular weight:	622.28
CAS number:	1998119-13-3 (chloride), 1954687-62-7
Molecular formula:	C <sub>40</sub> H <sub>48</sub> ClN <sub>3</sub> O
Solubility:	good in DMSO, DMF, alcohols
Quality control:	NMR <sup>1</sup> 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.
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:	750
ε, L·mol <sup>-1</sup> ·cm <sup>-1</sup> :	199000
Emission maximum, nm:	773
Fluorescence quantum yield:	0.3
CF <sub>260</sub> :	0.022
CF <sub>280</sub> :	0.029