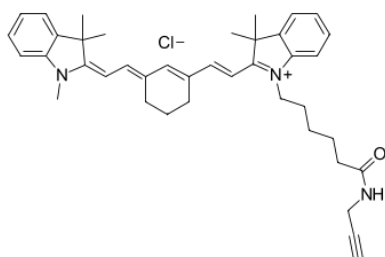


## Cyanine7 alkyne

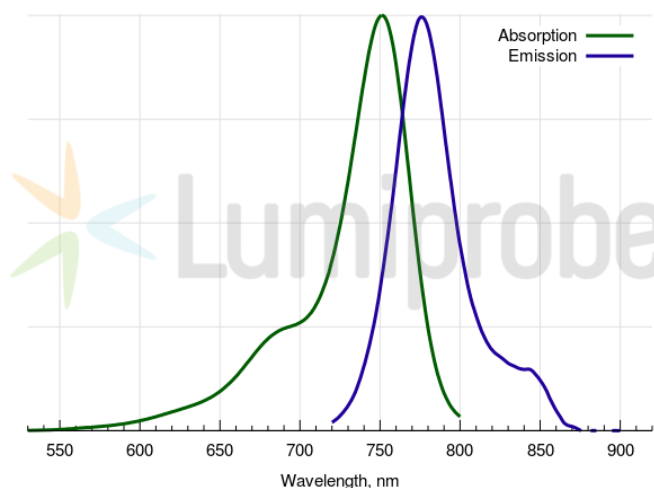
<http://www.lumiprobe.com/p/cy7-alkyne>

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.



**Cyanine7 alkyne structure**



**Cyanine7 absorbance and emission spectra**

### 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.
TN VED Code:	3204190000

### Spectral properties

Excitation 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

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