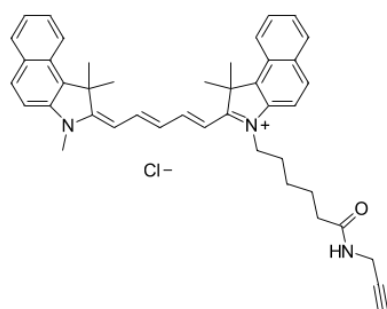


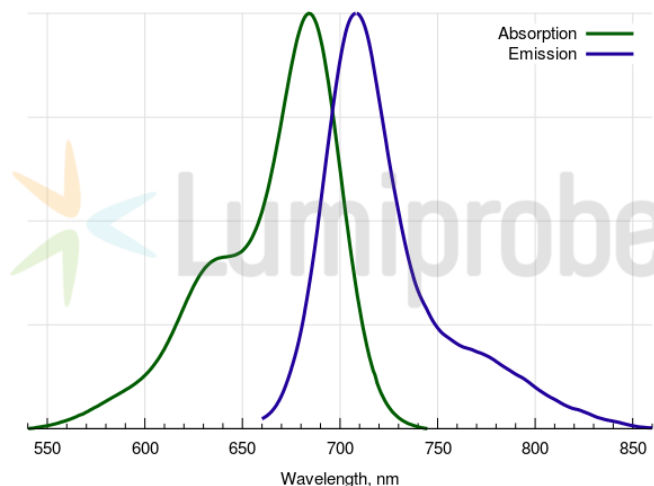
## Cyanine5.5 alkyne

Far red / near infrared dye alkyne for Click Chemistry labeling. Cyanine5.5 is an analog of Cy5.5®, a popular fluorophore which has been widely used for various applications including intact organism imaging. This reagent can be conjugated with azido groups under mild copper catalyzed Click Chemistry conditions.

This reagent is soluble in organic solvents, but mixtures of water with small percent of DMSO can be used for efficient conjugation. Cyanine5.5 alkyne can also be used for the labeling of small molecules with this far red/NIR dye.



**Cy5.5 alkyne structure**



**Cyanine5.5 absorbance and emission spectra**

### General properties

Appearance:	dark blue powder
Molecular weight:	656.30
Molecular formula:	C <sub>43</sub> H <sub>46</sub> ClN <sub>3</sub> O
Solubility:	good in organic solvents (DMF, DMSO, acetonitrile, DCM, alcohols), practically insoluble in water (5.2 uM, 3.7 mg/L)
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.
TN VED Code:	3204190000

### Spectral properties

Excitation maximum, nm:	684
$\epsilon$ , L·mol <sup>-1</sup> ·cm <sup>-1</sup> :	198000
Emission maximum, nm:	710
Fluorescence quantum yield:	0.2
CF <sub>260</sub> :	0.07
CF <sub>280</sub> :	0.03

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