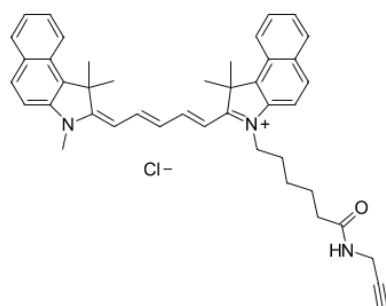


Cyanine5.5 alkyne

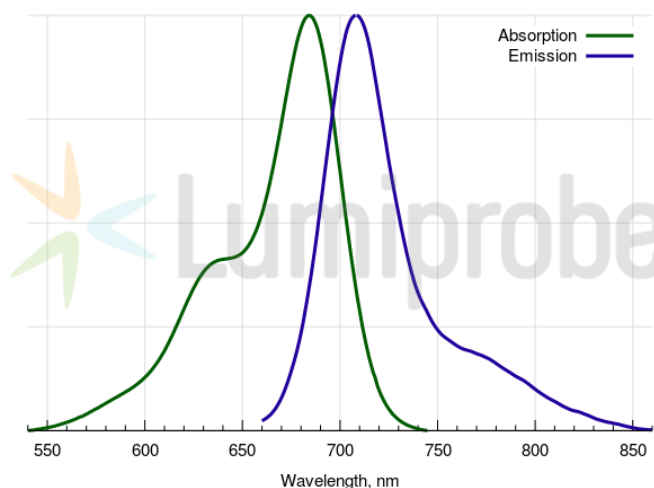
<http://www.lumiprobe.com/p/cy55-alkyne>

Far red / near-infrared dye alkyne for click chemistry labeling. Cyanine5.5 is an analog of Cy5.5®, a popular fluorophore 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 a 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.



Structure of Cyanine5.5 alkyne



Absorbance and emission spectra of Cyanine5.5

General properties

| | |
|---------------------|--|
| Appearance: | dark blue powder |
| Molecular weight: | 656.30 |
| CAS number: | 1628790-37-3 |
| Molecular formula: | C ₄₃ H ₄₆ ClN ₃ 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 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. |
| 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: | 684 |
| ε, L·mol ⁻¹ ·cm ⁻¹ : | 198000 |
| Emission maximum, nm: | 710 |
| Fluorescence quantum yield: | 0.2 |
| CF ₂₆₀ : | 0.07 |
| CF ₂₈₀ : | 0.03 |