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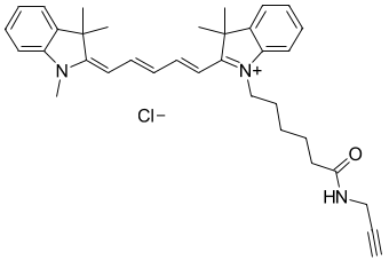
Cyanine5 alkyne

http://www.lumiprobe.com/p/cy5-alkyne

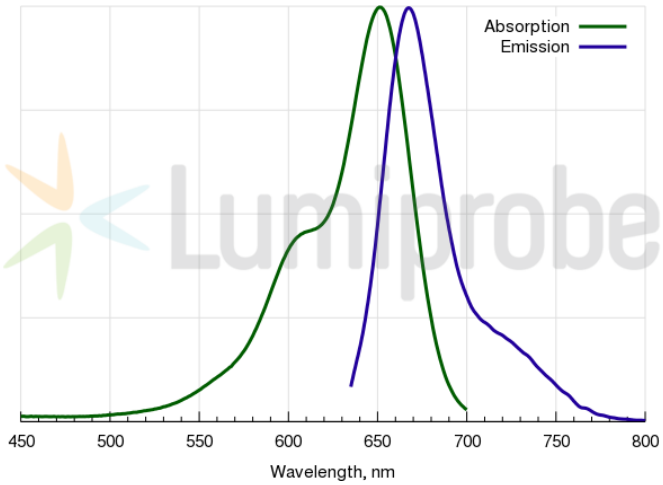
Cyanine5 is an analog of Cy5®, deeply colored and photostable fluorophore. Cyanine5 alkyne can be attached to various molecules via click chemistry reaction with azides.

This alkyne is non-water soluble, but it can be dissolved in DMF or DMSO before reaction and added to an aqueous reaction mixture. With our labeling protocol, the labeling reaction is very efficient, and high-yielding.

Various substrates bearing azides can be used for the labeling, including azido-labeled biomolecules, polymers, and solid surfaces.



Structure of Cyanine5 alkyne



Absorbance and emission spectra of Cyanine5

General properties

Appearance:	dark blue powder
Molecular weight:	556.18
CAS number:	1223357-57-0
Molecular formula:	$C_{35}H_{42}ClN_3O$
Solubility:	good in dichloromethane, DMF, DMSO, alcohols, very poorly soluble in water (200 mg/L = 0.4 mM)
Quality control:	NMR ^1H, HPLC-MS (95%)
Storage conditions:	Storage: 24 months after receival 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:	646
ε, $L \cdot mol^{-1} \cdot cm^{-1}$:	250000
Emission maximum, nm:	662
Fluorescence quantum yield:	0.2
CF_{260}:	0.03
CF_{280}:	0.04