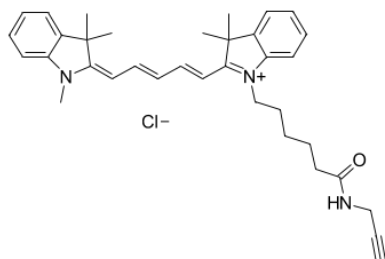


Cyanine5 alkyne

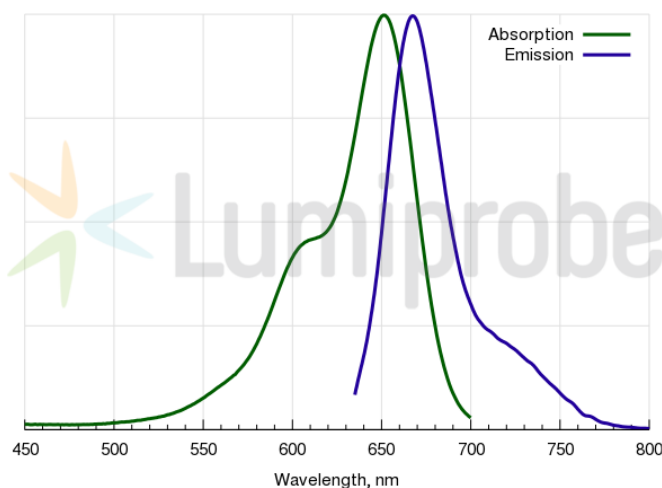
Cyanine5 alkyne for Click Chemistry, an analog of Cy5® alkyne. With this product, deeply colored, and photostable Cyanine5 fluorophore can be attached to various molecules via Click Chemistry reaction with azides.

This alkyne is non-water soluble, but it can be dissolved in DMF or DMSO prior to reaction, and added to 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 Cy5 alkyne



Cyanine5 absorbance and emission spectra

General properties

Appearance:	dark blue powder
Molecular weight:	556.18
CAS number:	1223357-57-0
Molecular formula:	C ₃₅ H ₄₂ ClN ₃ O
Solubility:	good in dichloromethane, DMF, DMSO, alcohols, very poorly soluble in water (200 mg/L = 0.4 mM)
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.
TN VED Code:	3204190000

Spectral properties

Excitation maximum, nm:	646
ε, L·mol ⁻¹ ·cm ⁻¹ :	250000
Emission maximum, nm:	662
Fluorescence quantum yield:	0.2
CF ₂₆₀ :	0.03
CF ₂₈₀ :	0.04

Cy® is a trademark of GE Healthcare.