

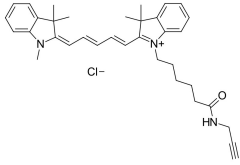
Cyanine 5 alkyne (A270160)

Specifications:

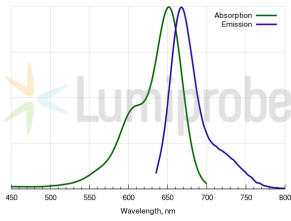
Name:	Cyanine 5 alkyne
Description:	Cyanine 5 alkyne for Click Chemistry, an analog of Cy5® alkyne. With this product, deeply colored, and photostable Cyanine 5 fluorophore can be attached to various molecules via Click Chemistry reaction with azides. This alkyne is non-water soluble, but it can be dissolved in DMF or DMSO prior to reaction, and added to aqueous reaction mixture. 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.
Absorption Maxima:	646 nm
Extinction Coefficient:	250000 M ⁻¹ cm ⁻¹
Emission Maxima:	662 nm
Fluorescence Quantum Yield:	0.2
CAS Number:	1223357-57-0
CF ₂₆₀ :	0.03
CF ₂₈₀ :	0.04
Purity:	95% (by ¹ H NMR and HPLC-MS).
Molecular Formula:	C ₃₅ H ₄₂ CIN ₃ O
Molecular Weight:	556.18 kDa
Product Form:	Dark blue powder.
Solubility:	Good in dichloromethane, DMF, DMSO, and alcohols. Very poorly soluble in water (200 mg/L = 0.4 mM).
Storage:	Shipped at room temperature. Upon delivery, store in the dark at -20°C. Avoid prolonged exposure to light.
Disclaimer:	This product is for research use only. It is not intended for diagnostic or therapeutic use.

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Images:



Structure of Cy5 alkyne.



Cyanine 5 absorbance and emission spectra.