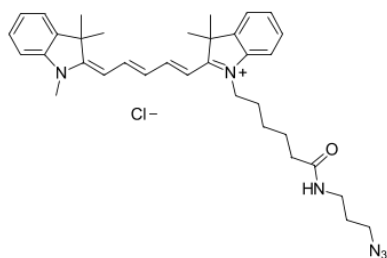


Cyanine5 azide

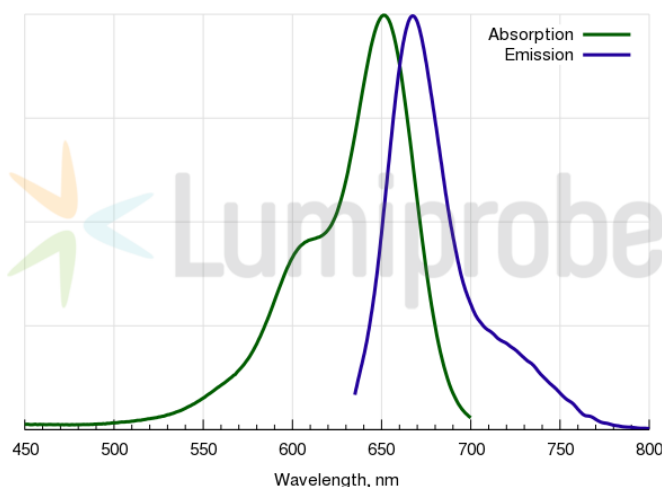
Cyanine5 azide labeling reagent for [Click Chemistry](#), available as 10 mM solution in DMSO, and in solid form.

This azide is soluble in organic solvents (e.g. DMSO, DMF), therefore the labeling reaction should be carried out with a small amount of an organic co-solvent. This azide can be used for the labeling of alkyne-modified biomolecules in mixtures of water with organic solvents. The solution in DMSO is ready for use in bioconjugation. A [water-soluble sulfonated version](#) of this reagent is also available.

Cyanine5 is an analog of Cy5®, one of the most commonly used fluorophores which is compatible with various instruments. Cyanine5 can also be used as a replacement for Alexa Fluor® 647, and DyLight® 649.



Cy5 azide structure



Cyanine5 absorbance and emission spectra

General properties

Appearance:	dark blue powder / solution
Molecular weight:	601.22
CAS number:	1267539-32-1 (chloride), 1267804-34-1
Molecular formula:	C ₃₅ H ₄₅ ClN ₆ O
Solubility:	soluble in organic solvents (DMSO, DMF, dichloromethane), very poorly soluble in water (0.63 mM, 110 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. Desiccate.
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

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