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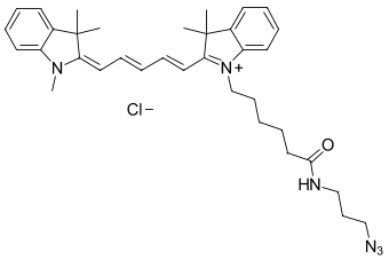
Cyanine5 azide

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

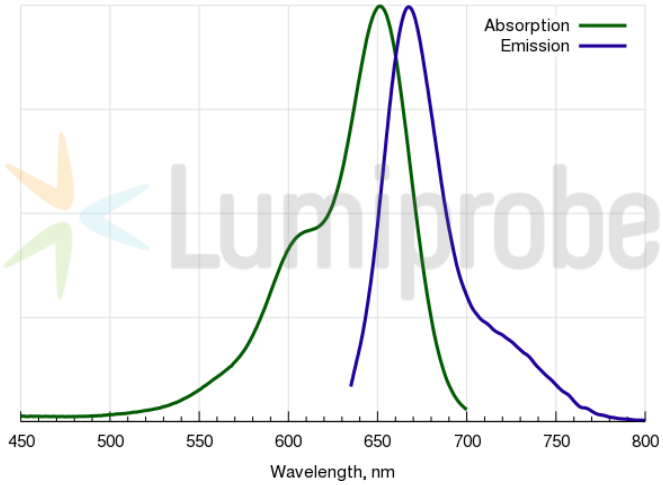
Cyanine5 azide labeling reagent for Click Chemistry, available as 10 mM solution in DMSO and in solid form.

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 DyLight® 649.



Structure of Cyanine5 azide



Absorbance and emission spectra of Cyanine5

General properties

Appearance:	dark blue powder / solution
Molecular weight:	601.22
CAS number:	1267539-32-1 (chloride)
Molecular formula:	$C_{35}H_{45}ClN_6O$
Solubility:	soluble in organic solvents (DMSO, DMF, dichloromethane), very poorly soluble in water (0.63 mM, 110 mg/L)
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. Desiccate.

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