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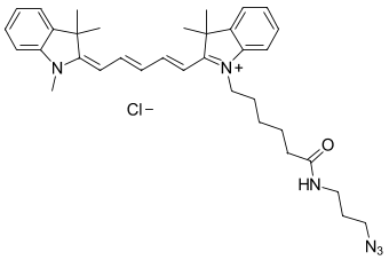
Cyanine5 azide

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

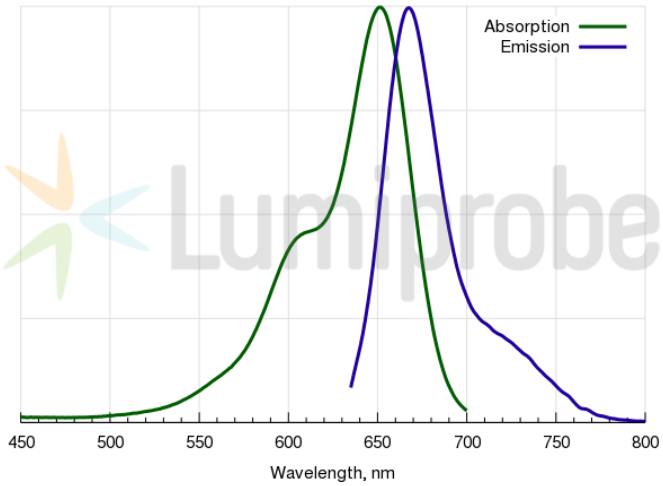
Cyanine5 azide labeling reagent for Click Chemistry, available as 10 mM solution in DMSO and in solid form.

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.
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

Cy® is a trademark of Cytiva.