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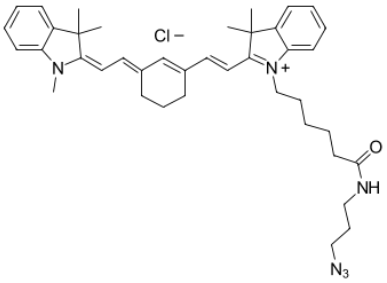
Cyanine7 azide

http://www.lumiprobe.com/p/cy7-azide

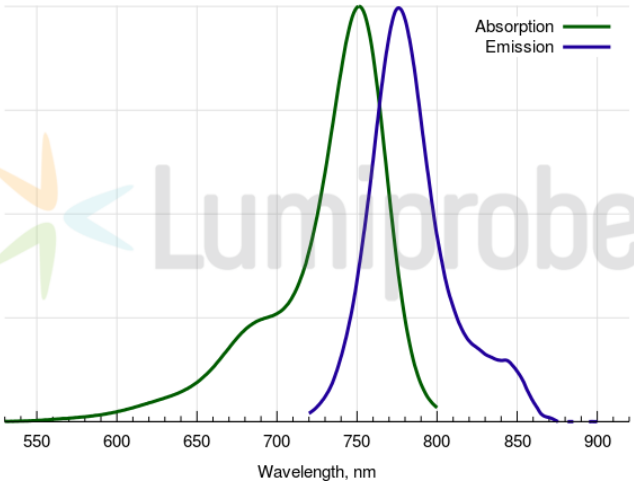
Cyanine7 azide is a near-infrared fluorescent dye azide for click chemistry labeling, an analog of Cy7® azide.

This product can be used for the incorporation of Cyanine7 into various alkynylated biomolecules via click chemistry. Post-synthetic modification of oligonucleotides is also possible with this azide.

Cyclohexane-bridged polymethyne chain allows for 20% increase in quantum yield (compared to parent non-bridged structure).



Structure of Cyanine7 azide



Absorbance and emission spectra of Cyanine7

General properties

Appearance:	green powder / solution
Molecular weight:	667.33
CAS number:	1557149-65-1 (chloride), 1557397-59-7
Molecular formula:	$C_{40}H_{51}ClN_6O$
Solubility:	soluble in organic solvents (DMSO, DMF, dichloromethane), low solubility in water
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:	750
ε, $L \cdot mol^{-1} \cdot cm^{-1}$:	199000
Emission maximum, nm:	773
Fluorescence quantum yield:	0.3
CF_{260}:	0.022
CF_{280}:	0.029