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Cyanine7.5 azide

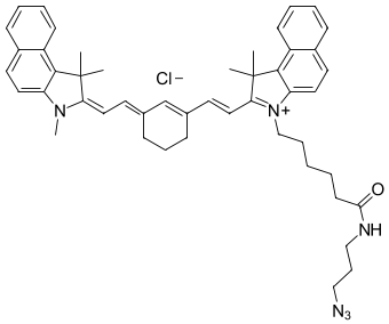
http://www.lumiprobe.com/p/cy75-azide

Cyanine7.5 is a NIR dye with long-wave infrared fluorescence. This derivative is azide for click chemistry.

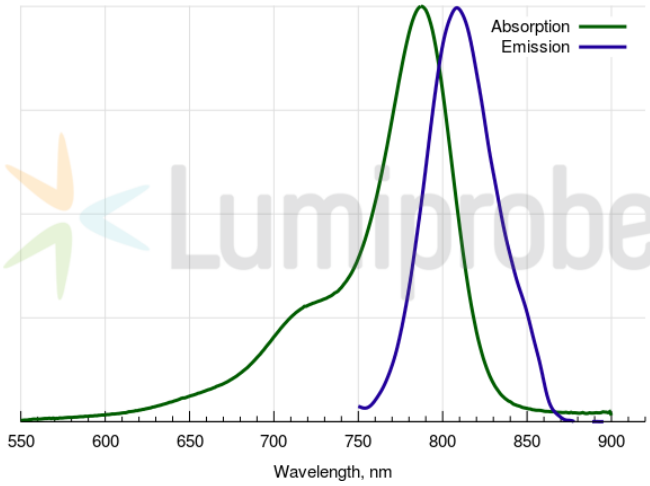
Can be used for the construction of various labeled biomolecules containing Cyanine7.5, near-infrared fluorescent dye, and an improved analog of Cy7.5®. These conjugates can take advantage of NIR tissue transparency when used for in vivo imaging. This fluorophore is also useful for other fluorescent applications, especially requiring low fluorescent background.

Azide is available as a DMSO solution, ready for general click chemistry labeling protocol, or in solid form for custom labeling applications.

Structure features a rigid bridged polymethine chain to increase quantum yield by 20%, allowing for a brighter signal.



Cyanine7.5 azide structure



Cyanine7.5 absorbance and emission spectra

General properties

Appearance:	green powder / solution
Molecular weight:	767.44
CAS number:	1628790-36-2; 1628897-78-8 (without anion)
Molecular formula:	$C_{48}H_{55}ClN_6O$
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:	788
ε, $L \cdot mol^{-1} \cdot cm^{-1}$:	223000
Emission maximum, nm:	808
Fluorescence quantum yield:	0.10