

Lumiprobe Corporation

115 Airport Dr Suite 160 Westminster, Maryland 21157

USA

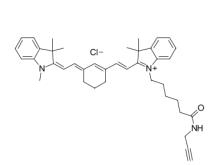
Phone: +1 888 973 6353 Fax: +1 888 973 6354 Email: order@lumiprobe.com

Cyanine7 alkyne

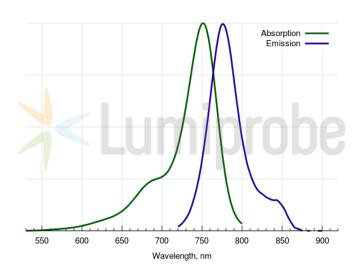
http://www.lumiprobe.com/p/cy7-alkyne

Alkyne derivative of Cyanine7, a near infrared fluorophore, analog of Cy7®. The alkyne can be conjugated to a variety of azides via copper-catalyzed click chemistry.

The dye has limited solubility in water, but it can be successfully conjugated in aqueous buffers with the addition of DMSO or DMF.



Structure of Cyanine7 alkyne



Absorbance and emission spectra of Cyanine7

General properties

Appearance: green powder

Mass spec M+ increment: 586.4 Molecular weight: 622.28

CAS number: 1998119-13-3 (chloride), 1954687-62-7

Molecular formula: $C_{40}H_{48}CIN_3O$

Solubility: good in DMSO, DMF, alcohols 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·mol $^{-1}$ ·cm $^{-1}$: 199000 Emission maximum, nm: 773 Fluorescence quantum yield: 0.3 CF_{260} : 0.022 CF_{280} : 0.029

Cy® is a trademark of GE Healthcare.