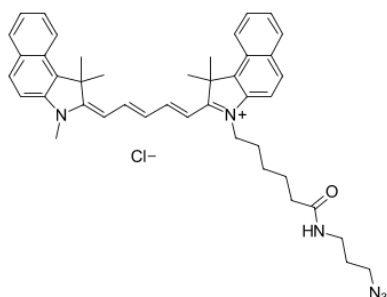


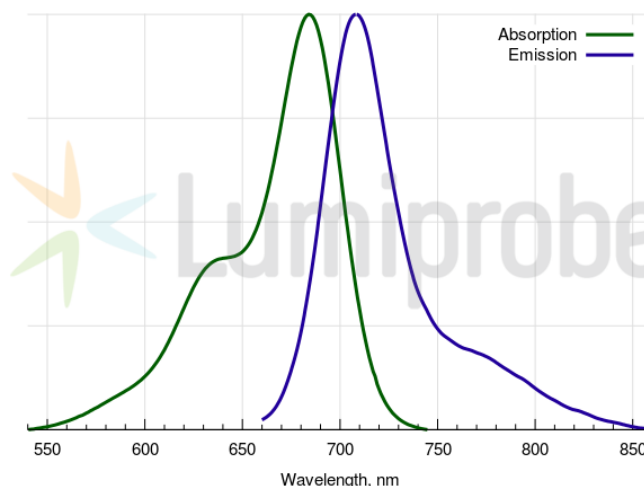
Cyanine5.5 azide

<http://www.lumiprobe.com/p/cy55-azide>

This Cyanine5.5 labeling reagent is a dye azide for click chemistry, available as 10 mM solution in DMSO, or in solid form. The dye possesses far red / near infrared emission, which allows to use it for NIR live organism imaging. Cyanine5.5 can replace Cy5.5® and DyLight 680.



Structure of Cyanine5.5 azide



Absorbance and emission spectra of Cyanine5.5

General properties

Appearance:	dark blue powder / solution
Molecular weight:	701.34
Molecular formula:	C ₄₃ H ₄₉ ClN ₆ O
Solubility:	soluble in organic solvents (DMSO, DMF, dichloromethane), practically insoluble in water (1.6 µM, 1.2 mg/L)
Quality control:	NMR ¹ H, HPLC-MS (95%)
Storage conditions:	Storage: 24 months after receipt 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:	684
ε, L·mol ⁻¹ ·cm ⁻¹ :	198000
Emission maximum, nm:	710
Fluorescence quantum yield:	0.2
CF ₂₆₀ :	0.07
CF ₂₈₀ :	0.03

Cy® is a trademark of Cytiva.