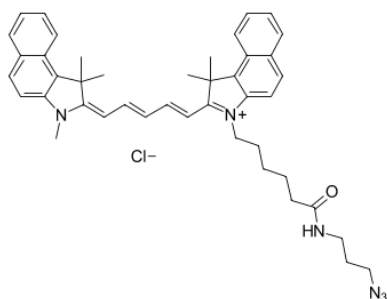
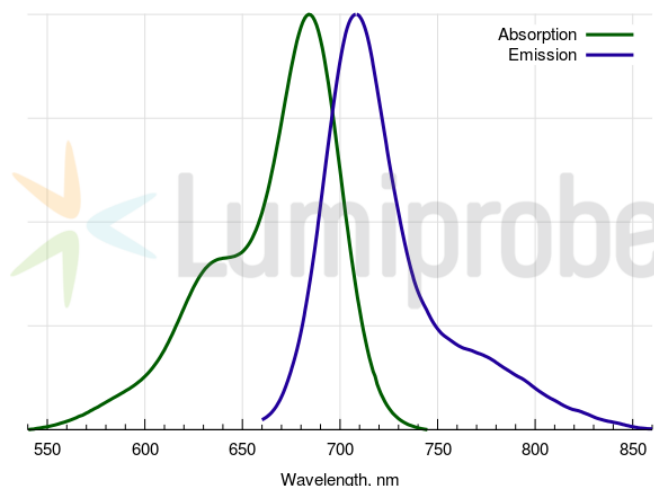


Cyanine5.5 azide

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®, Alexa Fluor 680, and DyLight 680.



Cy5.5 azide structure



Cy5.5 absorbance and emission spectra

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. |
| TN VED Code: | 3204190000 |

Spectral properties

| | |
|--|--------|
| Excitation 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 |

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