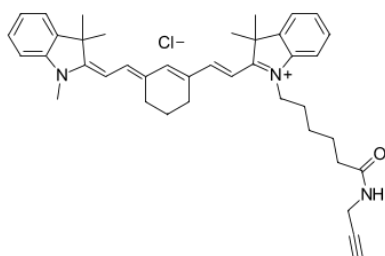


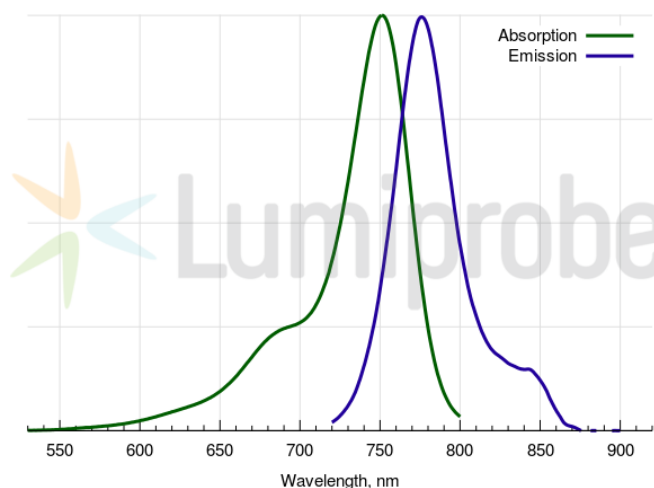
Cyanine7 alkyne

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.



Cyanine7 alkyne structure



Cyanine7 absorbance and emission spectra

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 ClN ₃ O |
| Solubility: | good in DMSO, DMF, alcohols |
| 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: | 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 |

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