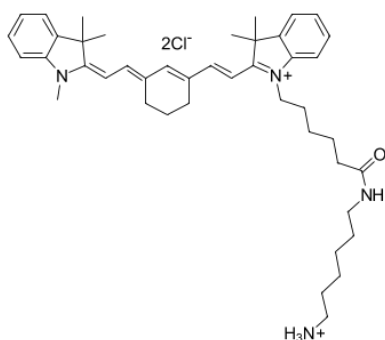


Cyanine7 amine

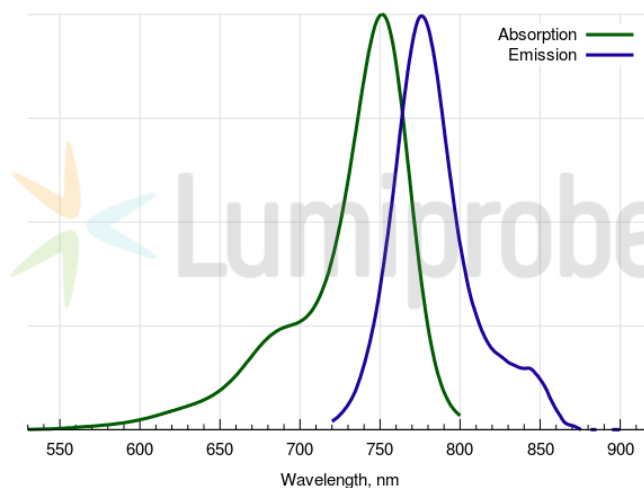
<http://www.lumiprobe.com/p/cy7-amine>

Near-infrared dye with free amine group for the conjugation with activated esters and other reactive molecules.

Cyanine7 is a near-infrared dye, an analog of Cy7® which is especially suitable for live organism imaging, and demanding low-background applications.



Structure of Cyanine7 amine



Cyanine7 absorbance and emission spectra

General properties

| | |
|---------------------|--|
| Appearance: | green powder |
| Molecular weight: | 719.87 |
| CAS number: | 1650635-41-8, 1650559-73-1 [Cl-] |
| Molecular formula: | C ₄₃ H ₆₀ Cl ₂ N ₄ O |
| Solubility: | soluble in water (72 mM = 51 g/L), well soluble 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. |

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 |

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