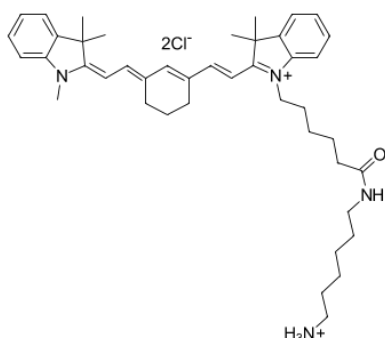


Cyanine7 amine

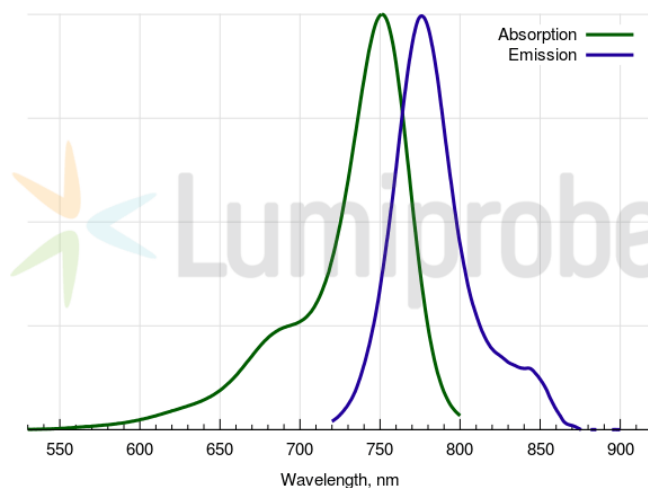
<http://www.lumiprobe.com/p/cy7-amine>

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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