

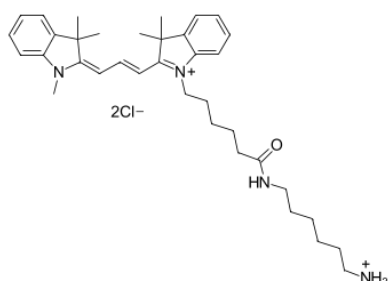
Cyanine3 amine

<http://www.lumiprobe.com/p/cy3-amine>

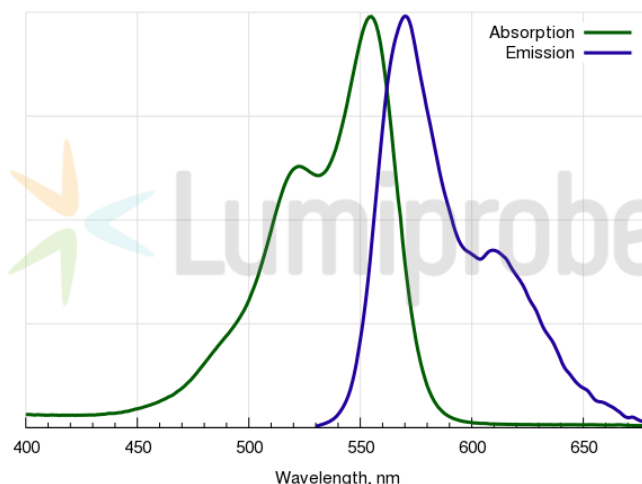
Cyanine3 amine is a functionalized cyanine dye containing a free amino group. Cyanine3 is an analog of Cy3®.

Amino group of this reagent can be conjugated with reactive groups such as NHS esters, carboxy groups (after carbodiimide activation), and epoxides.

The amino dye is supplied in salt form, and possesses some aqueous solubility.



Cyanine3 amine structure



Cyanine3 absorption and emission spectra

General properties

Appearance:	red powder
Molecular weight:	627.73
CAS number:	2247688-56-6
Molecular formula:	C ₃₆ H ₅₂ Cl ₂ N ₄ O
IUPAC name:	3H-Indolium, 1-[6-[(6-aminohexyl)amino]-6-oxohexyl]-2-[3-(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)-1-propen-1-yl]-3,3-dimethyl-, chloride, hydrochloride (1:1:1)
Solubility:	moderate solubility in water, good in polar organic solvents (DMF, DMSO, 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.

Spectral properties

Excitation/absorption maximum, nm:	555
ε, L·mol ⁻¹ ·cm ⁻¹ :	150000
Emission maximum, nm:	570
Fluorescence quantum yield:	0.31
CF ₂₆₀ :	0.04
CF ₂₈₀ :	0.09

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