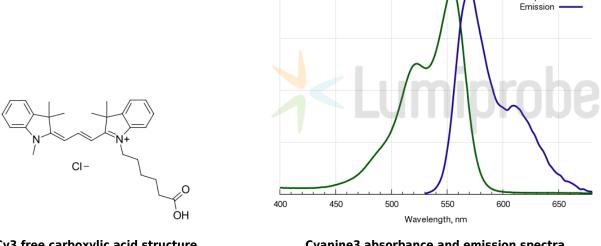


## Cyanine3 carboxylic acid

http://www.lumiprobe.com/p/cy3-carboxylic-acid

Free Cyanine3 carboxylic acid (Cy3® carboxylic acid analog), non-activated dye. Non-sulfonated reagent, with good solubility in organic solvents and limited aqueous solubility. The dye can be used as a non-reactive fluorophore for control experiments, and for calibration.

For coupling with amines, and labeling, consider using Cyanine3 NHS ester, or water-soluble sulfo-Cyanine3 NHS ester.



Cy3 free carboxylic acid structure

Cyanine3 absorbance and emission spectra

Absorption

General properties	
Appearance:	red powder
Molecular weight:	493.08
CAS number:	1361402-15-4 (inner salt), 1032678-01-5 (chloride), 1251915-29-3 (iodide)
Molecular formula:	$C_{30}H_{37}CIN_2O_2$
Solubility:	soluble in organic solvents (DMF, DMSO, dichloromethane), poorly soluble in water (1.8 g/L = $4.0 \text{ mM}$ )
Quality control:	NMR <sup>1</sup> H, HPLC-MS (95%)
Storage conditions:	Storage: 24 months after receival 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 <sup>-1</sup> ·cm <sup>-1</sup> :	150000
Emission maximum, nm:	570
Fluorescence quantum yield:	0.31
CF <sub>260</sub> :	0.04
CF <sub>280</sub> :	0.09

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