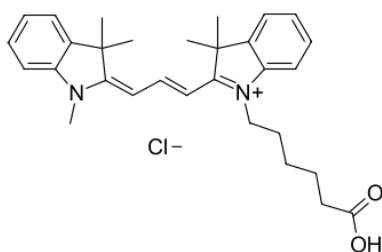


## Cyanine3 carboxylic acid

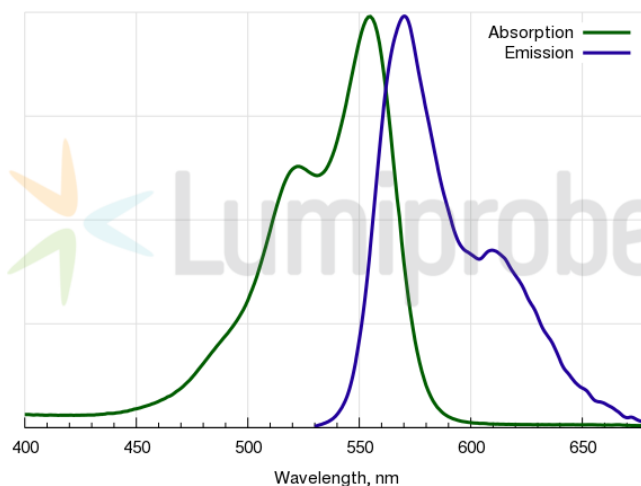
<http://www.lumiprobe.com/p/cy3-carboxylic-acid>

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**

### 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 <sub>30</sub> H <sub>37</sub> ClN <sub>2</sub> O <sub>2</sub>
Solubility:	soluble in organic solvents (DMF, DMSO, dichloromethane), poorly soluble in water (1.8 g/L = 4.0 mM)
Quality control:	NMR <sup>1</sup> 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 <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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