

## **Lumiprobe Corporation**

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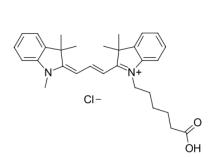
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## **Cyanine3 carboxylic acid**

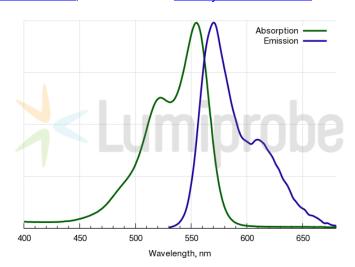
http://www.lumiprobe.com/p/cy3-carboxylic-acid

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:  $C_{30}H_{37}CIN_2O_2$ 

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 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  $\epsilon$ , 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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