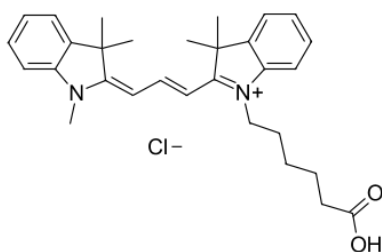


Cyanine3 carboxylic acid

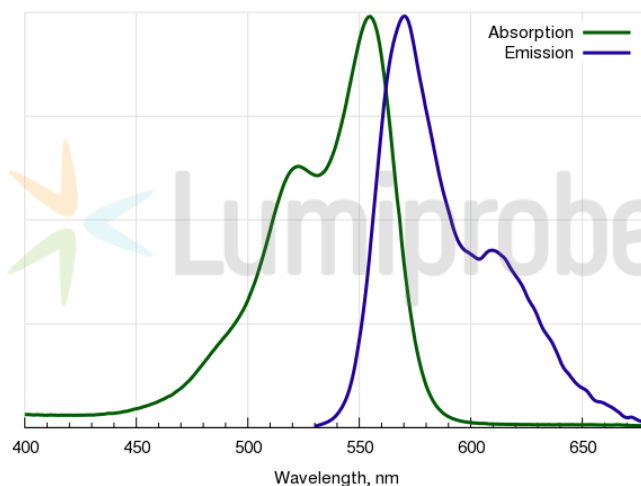
<http://www.lumiprobe.com/p/cy3-carboxylic-acid>

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 ClN ₂ O ₂
Solubility:	soluble in organic solvents (DMF, DMSO, dichloromethane), poorly soluble in water (1.8 g/L = 4.0 mM)
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.
Legal statement:	This Product is offered and sold for research purposes only. It has not been tested for safety and efficacy in food, drug, medical device, cosmetic, commercial or any other use. Supply does not express or imply authorization to use for any other purpose, including, without limitation, in vitro diagnostic purposes, in the manufacture of food or pharmaceutical products, in medical devices or in cosmetic products.

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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