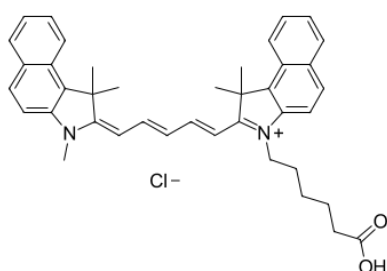


Cyanine5.5 carboxylic acid

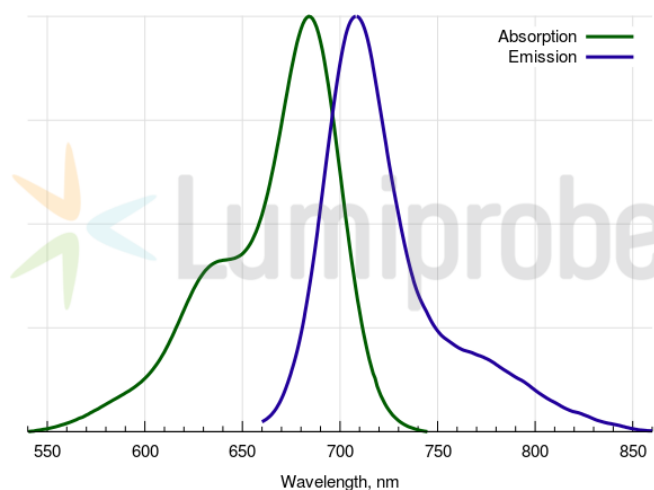
<http://www.lumiprobe.com/p/cy55-carboxylic-acid>

Cyanine5.5 dye, free acid form, unactivated. The dye can be considered non-reactive for most applications. It can be used as a control or reference sample, and for instrument calibration.

Pre-activated [NHS ester](#) for the labeling of amine groups is also available.



Structure of Cy5.5 free carboxylic acid



Cy5.5 absorbance and emission spectra

General properties

Appearance:	dark blue powder
Molecular weight:	619.23
CAS number:	1449661-34-0 (without anion), 1449612-07-0 (inner salt)
Molecular formula:	C ₄₀ H ₄₃ ClN ₂ O ₂
IUPAC name:	1H-Benz[e]indolium, 2-[5-[3-(5-carboxypentyl)-1,3-dihydro-1,1-dimethyl-2H-benz[e]indol-2-ylidene]-1,3-pentadien-1-yl]-1,1,3-trimethyl-
Solubility:	soluble in organic solvents (DMSO, DMF, dichloromethane), practically insoluble in water (< 1 uM, < 1 mg/L)
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:	684
ε, L·mol ⁻¹ ·cm ⁻¹ :	198000
Emission maximum, nm:	710
Fluorescence quantum yield:	0.2
CF ₂₆₀ :	0.07
CF ₂₈₀ :	0.03

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