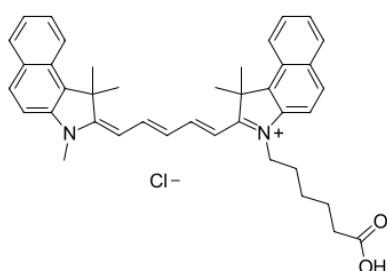


Cyanine5.5 carboxylic acid

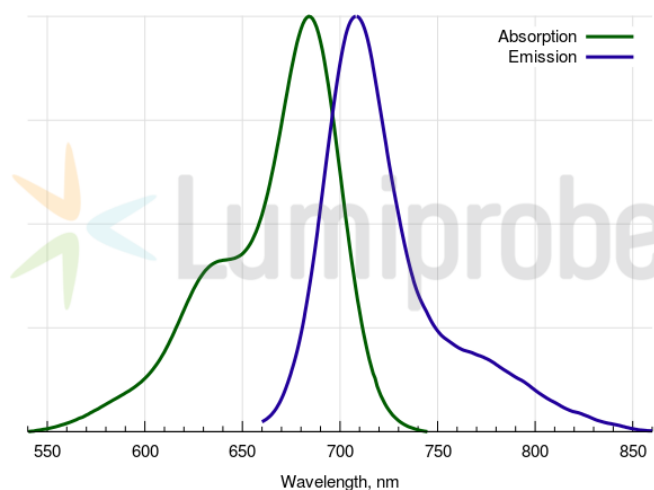
<http://www.lumiprobe.com/p/cy55-carboxylic-acid>

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. |
| 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: | 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 |