## Lumiprobe Corporation

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## 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

## General properties

Appearance:
Molecular weight:
CAS number:
Molecular formula:
IUPAC name:

Solubility:

Quality control:
Storage conditions:

Legal statement:
dark blue powder
619.23

1449661-34-0 (without anion), 1449612-07-0 (inner salt)
$\mathrm{C}_{40} \mathrm{H}_{43} \mathrm{ClN}_{2} \mathrm{O}_{2}$
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-
soluble in organic solvents (DMSO, DMF, dichloromethane), practically insoluble in water (<1 uM, < $1 \mathrm{mg} / \mathrm{L}$ )

NMR ${ }^{1} \mathrm{H}, \mathrm{HPLC}-\mathrm{MS}$ (95\%)
Storage: 24 months after receival at $-20^{\circ} \mathrm{C}$ in the dark. Transportation: at room temperature for up to 3 weeks. Avoid prolonged exposure to light. Desiccate.

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
$\varepsilon, \mathrm{L} \cdot \mathrm{mol}^{-1} \cdot \mathrm{~cm}^{-1}$ : 198000

Emission maximum, nm: 710
Fluorescence quantum yield: 0.2
$\mathrm{CF}_{260}$ : 0.07
$\mathrm{CF}_{280}: \quad 0.03$
$C y ®$ is a trademark of GE Healthcare.

