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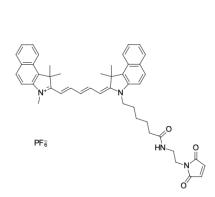
Cyanine 5.5 maleimide

http://www.lumiprobe.com/p/cy55-maleimide

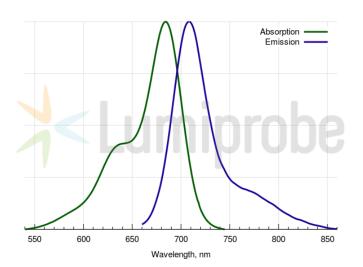
Cyanine5.5 maleimide is a thiol reactive dye which is capable of selective labeling of sulfhydryl groups in proteins, an analog of Cy5.5® maleimide.

Near infrared emission of Cyanine5.5 makes this dye suitable for bioimaging applications.

Cyanine 5.5 can replace Cy5.5® and DyLight 680.



Structure of Cyanine 5.5 maleimide



Cyanine 5.5 absorbance and emission spectra

General properties

Appearance: dark blue powder

Molecular weight: 850.89

CAS number: 1593644-50-8 Molecular formula: $C_{46}H_{49}F_6N_4O_3P$

IUPAC name: 1H-Benz[e]indolium, 2-[5-[3-[6-[[2-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)ethyl]amino]-

6-oxohexyl]-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 ¹H, 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.

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 , $L \cdot mol^{-1} \cdot cm^{-1}$: 198000 Emission maximum, nm: 710 Fluorescence quantum yield: 0.2 CF_{260} : 0.07 CF_{280} : 0.03

