

Lumiprobe Corporation

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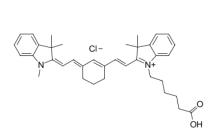
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Cyanine7 carboxylic acid

http://www.lumiprobe.com/p/cy7-carboxylic-acid

The unactivated free carboxylic acid of near-infrared fluorescent dye Cyanine7. For coupling and labeling reactions also consider using pre-activated Cyanine7 NHS ester, or water-soluble sulfo-Cyanine7 NHS ester.



Absorption Emission

550 600 650 700 750 800 850 900

Wavelength, nm

Cyanine7 free carboxylic acid structure

Cyanine7 absorbance and emission spectra

General properties

Appearance: green powder

Molecular weight: 585.22

CAS number: 1628790-40-8 (chloride), 1628897-82-4 (without anion), 2241083-63-4 (inner salt)

Molecular formula: $C_{37}H_{45}CIN_2O_2$

IUPAC name: 3H-Indolium, 2-[2-[3-[2-[1-(5-carboxypentyl)-1,3-dihydro-3,3-dimethyl-2H-indol-2-

ylidene]ethylidene]-1-cyclohexen-1-yl]ethenyl]-1,3,3-trimethyl-, chloride

Solubility: soluble in organic solvents (DMSO, DMF, dichloromethane), low solubility in water

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.

Spectral properties

Excitation/absorption maximum, nm: 750 ϵ , L·mol $^{-1}$ ·cm $^{-1}$: 199000 Emission maximum, nm: 773 CF_{260} : 0.022 CF_{280} : 0.029

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