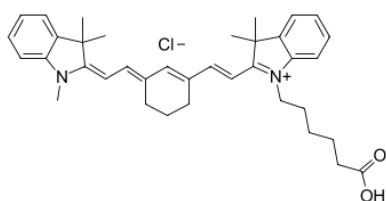


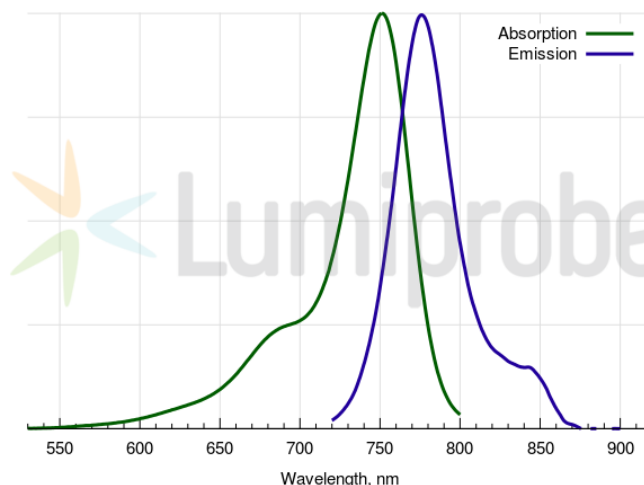
## Cyanine7 carboxylic acid

<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](#).



**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 <sub>37</sub> H <sub>45</sub> ClN <sub>2</sub> O <sub>2</sub>
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 <sup>1</sup> 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:	750
ε, L·mol <sup>-1</sup> ·cm <sup>-1</sup> :	199000
Emission maximum, nm:	773
CF <sub>260</sub> :	0.022
CF <sub>280</sub> :	0.029

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