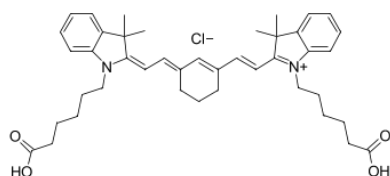


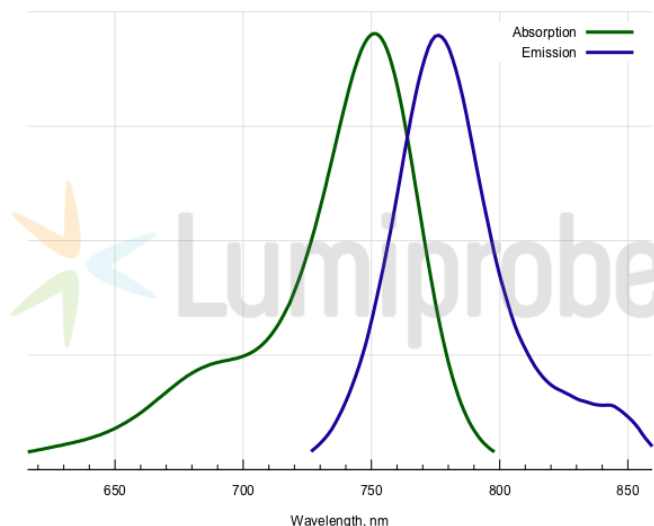
## Cyanine7 dicarboxylic acid

<http://www.lumiprobe.com/p/cy7-dicarboxylic-acid>

Cyanine7 dicarboxylic acid is a bifunctional dye molecule bearing two carboxylic groups. Cyanine7 possesses near infrared fluorescence.



**Structure of Cyanine7 dicarboxylic acid**



**Absorption and emission spectra of Cyanine7 fluorophore**

### General properties

|                     |                                                                                                                                                             |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Appearance:         | dark green solid                                                                                                                                            |
| Molecular weight:   | 685.33                                                                                                                                                      |
| Molecular formula:  | C <sub>42</sub> H <sub>53</sub> N <sub>2</sub> ClO <sub>4</sub>                                                                                             |
| Solubility:         | good in DCM, DMF, DMSO                                                                                                                                      |
| 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    |
| Fluorescence quantum yield:                | 0.3    |
| CF <sub>260</sub> :                        | 0.022  |
| CF <sub>280</sub> :                        | 0.029  |